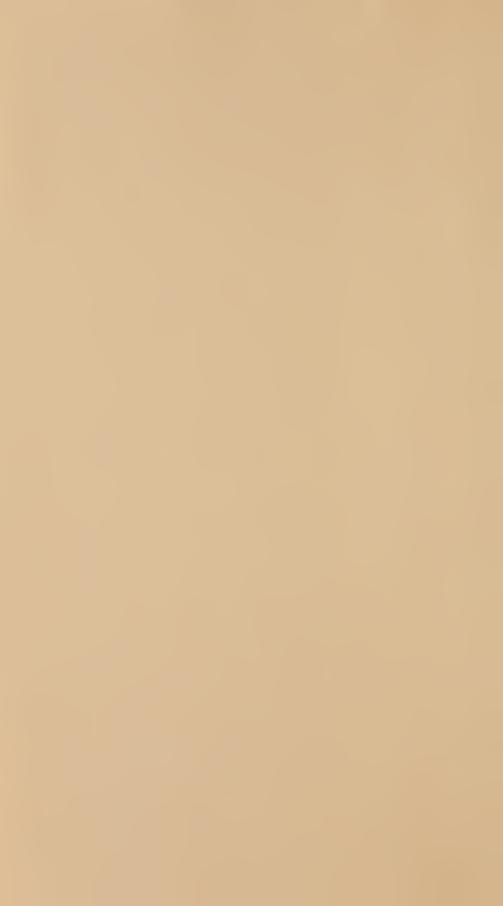






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#### HONORATISSIMO VIRO

# BRUCE BRUDENELL BRUCE,

COMITI DE AILESBURY,

ORDINIS ANTIQUISSIMI A CARDUO EQUITI,

&c. &c. &c.

QUINTUM HUNC

# NATURÆ VIVARII

FASCICULUM,

D. D. D.

GEORGIUS SHAW, FREDERICUS P. NODDER.

#### THE RIGHT HONORABLE

# BRUCE BRUDENELL BRUCE,

EARL OF AILESBURY,

Knight of the most ancient Order of the Thissle,

&c. &c. &c.

THIS FIFTH VOLUME

OF THE

# NATURALIST'S MISCELLANY

IS RESPECTFULLY INSCRIBED,

 $\mathbf{B} \mathbf{Y}$ 

HIS LORDSHIP'S MOST OBEDIENT HUMBLE SERVANTS,

GEORGE SHAW, FREDERICK P. NODDER



## MUSCICAPA ERYTHROGASTRA.

### CHARACTER GENERICUS.

Rostrum subtrigonum, utrinque emarginatum, apice incurvo; vibrissa patentes versus sauces.

Nares subrotundæ.

Lin. Syft. Nat. p. 324.

CHARACTER SPECIFICUS, &c.

MUSCICAPA NIGRA, fronte fasciaque tectricum albis, pectore abdomineque rubris.

MUSCICAPA MULTICOLOR.

Gmel. Syst. Nat. 1. p. 944.

MUSCICAPA ERYTHROGASTRA.

Lath. ind. orn. p. 479.

Hanc aviculam, novæ Hollandiæ incolam, fatis describit character specificus. Amat præcipue solitudines sylvasque insulæ Norfolciensis. Victitat insectis, ut fere solet reliquum genus. Qua niger est mas, ibi susca est semina; subtus slavo-aurantia.

### RED-BELLIED FLYCATCHER.

### GENERIC CHARACTER.

Bill fomewhat triangular, flattened at the bate, notched at the end of the upper mandible and befet with briftles.

Toes generally divided as far as their origin.

SPECIFIC CHARACTER, &c.

BLACK FLYCATCHER with front and bar of wing-coverts white: breast and belly red.

RED-BELLIED FLYCATCHER.

Lath. Synopf. 2. p. 343. pl. 50.

The bird here represented is a native of New Holland, and is sufficiently described by its specific character. It is particularly plentiful in the more sequestered and woody parts of Norfolk Island, and, like most others of its genus, feeds principally on insects. The semale is brown in those parts which are black in the male, and is of a yellowish orange beneath.





# ACROCHORDUS JAVANICUS.

**◎\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*** 

CHARACTER GENERICUS.

Verrucæ totum corpus obtegentes.

CHARACTER SPECIFICUS, &c.

ACROCHORDUS terreo-fuscus, subtus pallidior, lateribus albido-variegatis.

L'ACROCHORDE DE JAVA. Cepede Hist. Nat. des Serpents, p. 472.

ACROCHORDUS JAVANICUS.

Hornstedt.

Memoires de l'Académie des Sciences de Stockholm, an. 1787. p. 306.

fournal de Physique, an. 1788. p. 284.

Differt Acrochordus a reliquo omni ferpentino genere, quod non fquamis fed tuberculis innumeris verrucarum ad instar totus sit obductus. Genus igitur revera est distinctum, cujus unica tantum fpecies (illa nempe quæ in tabula depingitur) adhuc cognita est. Infulam Javam inhabitat, amatque præcipue degere ubi piper fatum fuerit. Crefcit Acrochordus in magnam molem, longus feilicet interdum plufquam pedes feptem. Caput modicum, vix collo latius, paulum complanatum est. Corpus versus medium fensim crassius prope caudam fubito contrahitur et gracilescit. Cauda ipfa, brevissima si cum corpore comparetur, apicem habet leviter acuminatum. Color rariffimi hujus ferpentis est terreo-fuscus, dorso nigriore, ventre pallidiore, quæ variatio fubobscure cernitur in lateribus. Visu afper et injucundus est Acrochordus, expers autem veneni, quippe quod careat dentibus tubulatis, qui ferpentibus folummodo virulentis contingunt. Specimen ipfissimum, unde delineata nostra figura, in Museo Britannico affervatur, pedes circitur tres lon-Si microfcopio accurate examinentur verrucæ, species esse squamarum videntur, quæ admodum convexæ carina femi-longitudinali obtufeacuminata instruuntur: minores vero quæ prope caudam, præter mediam carinam prominentia utrinque notantur.





#### THE

# ACROCHORDUS,

OR

# WARTED SNAKE.

*<u>0</u>\** 

#### GENERIC CHARACTER.

Tubercles refembling warts covering the whole body.

## SPECIFIC CHARACTER, &c.

BROWN ACROCHORDUS, paler beneath; with the fides obscurely variegated with whitish.

HORNSTEDT. descr.

Mem: de l'Acad: des Sciences de Stockholm. 1787. p. 306.

Journal de Physique. 1788. p. 284.

The Acrochordus differs from all the rest of the serpent tribe in being covered all over with innumerable muricated wart-like prominences. It therefore forms a distinct genus, of which the species here represented is the only one at present known. It is an inhabitant of Java, and is principally found amongst

amongst plantations of pepper. It sometimes attains to a very confiderable fize; having been feen of the length of more than feven feet. The head is of moderate fize, or fcarce of greater diameter than the neck, and of a fomewhat flattened shape: the body gradually thicker towards the middle, and fuddenly contracts towards the tail, which is very fhort in proportion, and flightly acuminated at its extremity. The colour of this curious fnake is an earthy-brown, deeper on the back, and fomewhat paler or more inclining to white on the under furface: an obscure fort of variegation is also visible on each fide the body. It is an animal of an unpleasing appearance, but is not of a poisonous nature, being unprovided with those tubular teeth or fangs which are peculiar to venomous ferpents. The specimen from which the present figure was taken is in the British Museum, and is about three feet in length.

On accurate examination, by the affiftance of a glafs, the verrucæ or prominences on the skin of the Acrochordus appear to be a species of scales, extremely convex, and furnished with an elevated semi-longitudinal obtusely-acuminated ridge or carina; and the smaller scales, or those towards the tail, are surnished with two smaller or lateral prominences; viz. one on each side the middle one.

## PAPILIO IDEA.

### 

### CHARACTER GENERICUS.

Antennæ apicem versus crassiores, sæpius clavatocapitatæ.

Alæ (sedentis) erectæ sursumque conniventes (volatu diurno.)

Lin. Syst. Nat. p. 744.

## CHARACTER SPECIFICUS, &c.

PAPILIO alis integerrimis rotundatis albis: venis maculifque nigris; primoribus nigro margine albo punctato.

Lin. Syst. Nat. p. 758. Danai candidi.

PAPILIO alis denudato-albis; venis maculifque nigris.

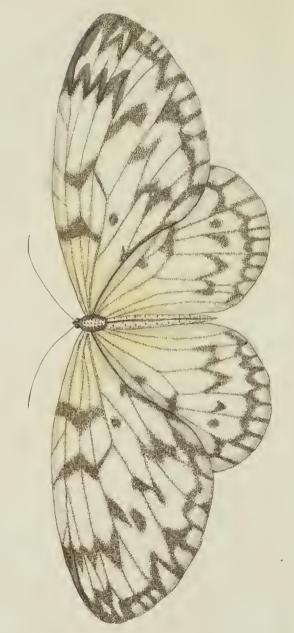
Fabr. spec. inf. 2. p. 38.

Parnassii.

Gmel. Syst. Nat. p. 2258. Parnassii. Clerk. ic. t. 38. f. 1. Pl. enl. 20. f. 1.

Papilionum plurimorum lautos splendidosque colores merito licet miremur, nonnullæ tamen sunt species queis simplex est elegantia et pulchritudo, vario et fucato congenerum nitore vix, ut puto, superanda. Exemplo est papilio qui in tabula depingitur, divifionis Heliconiæ ad quam refertur maximus. Continet hæc sectio illos quibus alæ magis oblongæ sunt
quam reliquis ejusdem generis, magisque pellucidæ,
squamis nempe tenuioribus vestitæ. Pulcherrime
albet papilio Idea, venis striisque aterrimis et velut
holosericis multifariam diverseque dispositis. Corpus album virgam habet dorsalem nigram: thorax
niger albo sasciatus. Alæ superiores juxta humeros
levissima slavedine tinguntur. Indiam incolit papilio Idea.





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# BLACK-STRIPED BUTTERFLY.

### GENERIC CHARACTER.

Antennæ or Horns thickening towards the upper part, and generally terminating in a knob or club-shaped tip.

Wings (when fitting) erect, and meeting upwards. (Flight diurnal.)

## SPECIFIC CHARACTER, &c.

WHITE BUTTERFLY with femi-transparent wings, veined and spotted with black.

Pl. enl. 20. fig. 1. Clerk. t. 38. f. 1. Cram. pap. 17. t. 193. f. A. B. Cram. pap. 31. t. 362. f. D?

While the major part of the papilionaceous infects aftonish us by the splendor and variety of their colours, there are some which on the contrary exhibit only the plainest and most simple hues, and yet at the same time display a species of beauty and elegance scarcely exceeded by the gaudy robes of their more

more brilliant congeners. Amongst these, one of the most remarkable is the infect here represented, which is the largest of the section or division of the genus to which it belongs. This fection, diffinguished by the title of Heliconii, confists of such butterflies whose wings are of a more oblong form than in the rest of the genus, and are besides remarkable for a peculiar degree of transparency, as if less thickly coated with scales than in others. This infect is of a beautiful white, ornamented by a variety of velvet-black streaks and spots, running in different directions. The body is white, with a black stripe down the back; and the thorax is black striped with white. The fuperior wings, near the shoulders, are very flightly tinged with yellowish. It is a native of India.

## FRINGILLA BENGALENSIS.

<del></del>

### CHARACTER GENERICUS.

Rostrum conicum, rectum, acuminatum.

Lin. Syst. Nat. p. 317.

## CHARACTER SPECIFICUS, &c.

FRINGILLA dilute fusca, subtus cærulea, abdomine interdum subroseo, macula suboculari purpureo-coccinea.

FRINGILLA dilute cærulea, capite dorfoque grifeis, lateribus capitis purpureis. Fr: Benghalus.

Lin. Syst. Nat. p. 323.

FRINGILLA dorso fusco, abdomine caudaque cæruleis. Fr: Angolensis.

Lin. Syft. Nat. p. 323.

BENGALUS.

Briff. av. 3. p. 303. n. 60. t. 10. f. 1.

Avicula perpulchra hic depicta Indiæ interioris nec non Africæ varias partes incolit. Alacri vividoque est ingenio; non tamen inter aves musicas numeratur. Mas a femina macula utrinque sub oculos purpureo-coccinea distinguitur.

C

#### THE

### BLUE-BELLIED FINCH.

### GENERIC CHARACTER.

Bill perfectly conic, flender towards the end, and very fharp-pointed.

Pennant.

## SPECIFIC CHARACTER, &c.

PALE-BROWN FINCH, blue beneath, with abdomen fometimes rose-coloured, and purplish-red spot under each eye.

BLUE-BELLIED FINCH.

Edw. pl. 131. (female.)

LE BENGALI.

Pl. enl. 115. f. 1. (male.)

BLUE-BELLIED FINCH.

Lath. Syn. 2. p. 310.

The elegant bird here figured is a native of feveral of the interior parts of India and Africa. It is of a lively difposition, but is not esteemed as a singing bird. The male is distinguished from the semale by a rich purplish-red spot situated beneath each eye.





## DIODON HYSTRIX.

*<u>\$\$</u>* 

### CHARACTER GENERICUS.

Caput: maxillæ offeæ, porrectæ, indivifæ. Apertura linearis.

Corpus spinis acutis mobilibus undique adspersum. Pinnæ ventrales nullæ.

Lin. Syst. Nat. p. 412.

### CHARACTER SPECIFICUS, &c.

DIODON fphæricus, aculeis basi triquetris.

Lin. Syst. Nat. p. 413.

Diod. Ating. γ.

Gmel. Syst. Nat. p. 1450.

Diod. Hystr. γ.

OSTRACION SUBROTUNDUS, aculeis undique densis, basi triquetris.

Art. gen. 60. Syn. 86.

ORBIS SPINOSUS.

Will. Ichth. p. 146.

Nullum esse terrestre nisi idem sit aquaticum, in resutando sortasse nimium longus negavit omnino vir doctissimus Thomas Brown in libro cui titulus "Pscudo-

" Pseudodoxia Epidemica." Et orta sane videtur popularis hæc opinio a cute externa animalium multorum æquoreorum et terrestrium sere simili; quæ hac de causa vulgo putantur quasi quodammodo asfinia; adeo ut concedi aliquatenus possit quod obfervavit ingeniosus quidem Gallus de veteribus plantarum symbolis, in sententia erroribus implicita fere æquam esse inter falsum et verum contentionem. Ex animalium marinorum numero quæ terrestribus respondere creduntur vix aliud insignius quam piscis qui in tabula cernitur. Simul atque enim eum spinis undique obsitum intuemur, in mentem statim venit mucronata hystricis lorica. In editione duodecima Systematis Naturæ disposuit eum Linnæus inter nantes: (rectius dixisset nantia.) Physicis autem recentioribus, quibus amplior anatomices cognitio, visum est id genus animalia ab amphibiis disfociare, et verum in locum apud pifces amovere. In oceanis Indicis et Americanis præcipue reperitur Diodon Hyftrix, crescitque interdum in longitudinem pedum duorum; at ut plurimum, multo minor est. Color fusco-pallet. Aculei juxta basin trianguli. Spinas potest vel erigere vel deprimere, corpusque vel inflare vei contrahere. Claudet hanc descriptionem quod subtilitur et acute, ut solet, obfervavit auctor ille quem in initio memoravi.

Quod si pro concesso habeatur eadem nomina tum terrestribus tum æquoreis animalibus commode satis posse imponi, rigida tamen ratiocinandi lege non nomina dare marinis, sed ab iis sua derivare debent terrestria. Qui enim prius existebant maris incolæ priores priores etiam in ipfa natura adepti funt appellationes. At quoniam eos non nominavit Adamus qui terrenis pro vario ingenio titulos dedit, ab iis qui Adamum fecuti funt ad arbitrium vocabantur, habita ratione animalium quæ ipfi in terris viderant, quæque affinia putabantur, quæ autem fibi propria et peculiaria vocabula habebant ad hos utpote prius creatos nihil spectantia.

#### THE

## PORCUPINE DIODON.

### GENERIC CHARACTER.

Jaws confisting of undivided bony processes.

Body covered on all sides with sharp moveable spines.

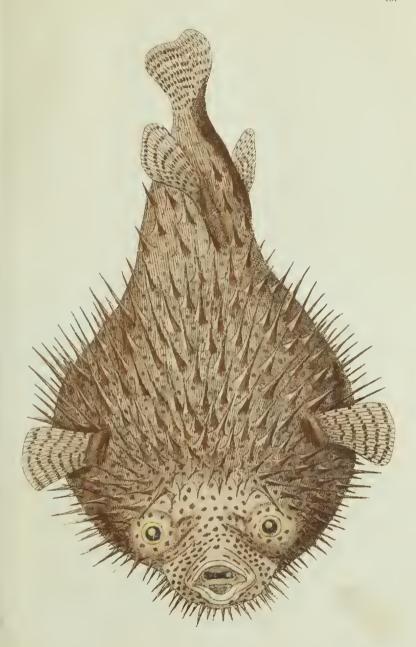
## SPECIFIC CHARACTER, &c.

DIODON of an almost spherical shape, with the spines triangular at their base.

THE PRICKLY GLOBE-FISH.
THE PORCUPINE FISH.

THE SEA PORCUPINE.

That all land animals "are in their kind, in the fea," is a popular opinion, commemorated, and with unnecessary prolixity opposed and confuted by the learned Sir Thomas Brown, in his well-known work the Pseudodoxia Epidemica, or Vulgar Errors. This idea seems to have arisen from a general resemblance which sometimes takes place between the external coating of several marine animals, and that of some





some terrestrial ones, which may therefore be said. according to common conceptions, to be in fome degree allied; and, confidered in this point of view. what has been affirmed by an ingenious Frenchman of the old doctrine of botanical fignatures, may in great measure be granted, viz. that the notion. though loaded with errors, may be allowed upon the whole to contain almost as many truths as falsehoods. Amongst the animals which stand as examples of this allowable nomination, the fish reprefented on the plate may ferve as a remarkable inflance; its fpiny appearance naturally bringing to mind the quilly armour of the porcupine. This animal in the twelfth edition of the Systema Naturæ of Linnæus, was ranked under the particular divifion of Amphibia termed Nantes, or (as it might with more propriety have flood,) Nantia. From a more accurate knowledge however of their anatomical structure than was then known, the naturalists of the prefent day have pretty generally agreed to remove these creatures from the Amphibia, and to remand them to their proper fituation amongst fishes.

The Diodon Hystrix is principally found in the Indian and American seas, and grows to a considerable size; having been seen of the length of about two seet. Its more general size is however much smaller. Its colour is a pale brown; and the prickles are of a triangular shape towards their base. The Diodon has the power of erecting or depressing its spines in a great degree, as well as of inflating or contracting its body.

In addition to what has been faid, I shall beg leave to give a quotation from the learned author mentioned at the beginning of this paper, as a curious instance of the peculiar exactness and deep speculations of that celebrated writer.

" Moreover if we concede that the animals of one " element might bear the names of those in the " other, yet in strict reason the watery productions " fhould have the prenomination: and they of the " land rather derive their names from, than nomi-" nate, those of the sea. For the watery plantations " were first existent, and as they enjoyed a priority " in form, had also in nature precedent denomina-" tions; but falling not under that nomenclature of " Adam, which unto terrestrious animals assigned a " name appropriate unto their natures; from fuc-" ceeding spectators they received arbitrary appel-" lations; and were respectively denominated unto " creatures known at land; who in themselves had " independent names, and not to be called after " them which were created before them."

# CLIO LIMACINA.

#### CHARACTER GENERICUS.

Corpus natans, oblongum: Alis duabus, membranaceis, oppositis.

Lin. Syst. Nat. p. 1094.

# CHARACTER SPECIFICUS, &c.

CLIO NUDA, corpore obconico.

Gmel. Syst. Nat. p. 3149.

Phipps. it. bor. p. 195.

Mart. Spitsb: p. 169. t. P. f. 5.

Soland. et Ellis. cor. tab. 15 f. 9. 10.

Paucas et exiguas continet species genus Clio, quarum e corpore utrinque producitur, ut plurimum, membrana velut thecam efficiens, et a capite utrinque expanditur quasi velum parvulum ovatum; unde fit ut sepias minutas brachiis carentes non male referant. Caret autem theca species quam describimus, et limaci parvo non longe est absimilis. Fuscoalbicat, longaque est circiter unciam cum dimidio. Oceanum septentrionalem inhabitat.







# LIMACINE CLIO.

**◇**∻∻÷÷÷÷÷÷÷÷÷÷<del>\*</del>÷<del>\*</del>÷÷÷

#### GENERIC CHARACTER.

Body oblong, nayant; with a pair of opposite membranaceous Wings or expanded processes.

SPECIFIC CHARACTER, &c.

NAKED, or SHEATHLESS CLIO, with inverfely conical body.

SNAIL-SHAPED CLIO.

LIMACINE OR SLUG-SHAPED CLIO.

NORTHERN CLIO.

The genus Clio, which is far from a numerous one, confifts of animals of a fmall fize, and in general form not ill refembling minute Sepiæ or Cuttle-fish without arms. This appearance arises from the body being edged, as it were, with a membrane on each fide, forming a kind of sheath; and on each fide the head is a small expanded oval process. The species here exhibited is destitute of the sheath-like membrane above-mentioned, and bears no very

very distant resemblance to a small slug. Its colour is a very pale or whitish brown, and its length about an inch and half. It is an inhabitant of the Northern ocean.

# PIPRA CAUDATA.

*<u></u>* 

#### CHARACTER GENERICUS.

Rostrum capite brevius, basi subtrigonum, integerrimum, apice incurvum.

Pedes grefforii.

Lin. Syst. Nat. p. 338.

#### CHARACTER SPECIFICUS.

PIPRA CÆRULEA, vertice fubcriftato coccineo, alis nigris, rectricibus duabus intermediis elongato-acuminatis.

Colli caudæque latera viridi-splendentia.

Aviculam in suo genere proculdubio pulcherrimam et coloribus eximiis superbientem, simulque novam nec antea descriptam, magnitudine naturali depictam, sistit tabula. In America Australi et calidiori, sicut aliæ pleræque congeneres, præcipue invenitur.





#### THE

# LONG-TAILED MANAKIN.

#### GENERIC CHARACTER.

Bill shorter than the head, somewhat triangular at the base, bent at the tip.

Feet gressorial.

#### SPECIFIC CHARACTER.

BLUE MANAKIN with fearlet crown, black wings, and the two middle tail-feathers elongated and acuminated.

The sides of the neck and tail have a green lustre.

The bird here represented, which is unquestionably the most brilliant of its tribe, and is besides a new and hitherto undescribed species, is sigured in its natural size. Like the rest of its genus it is principally found in the warmer parts of South America.



# ASCIDIA CLAVATA.

**<++++++++++++++++++++++++** 

#### CHARACTER GENERICUS.

Corpus fixum, teretiusculum, vaginans.

Aperturæ binæ utplurimum ad summitatem: altera humiliore.

Gmel. Syst. Nat. p. 3127.

#### CHARACTER SPECIFICUS, &c.

ASCIDIA stipite longissimo, corpore ovato, aperturarum utraque laterali.

ASCIDIA stipite filiformi, aperturarum utraque laterali.

Lin. Syft. Nat. Gmel. p. 3127.

#### VORTICELLA BOLTENI.

Mant. plant. p. 552.

Bolten epist. de nov. 200ph. Hamb. 1771.

Solent, ut plurimum, Afcidiæ faxis, rupibus, aliifque marinis fubstantiis basi adhærere. Forma iis plerumque oblonga, superius crassior. Sunt tamen duæ vel tres species quæ stipite seu pedunculo longo tubulato instruuntur, unde oritur inter eas et reliquas congeneres summa dissimilitudo. Specie-

rum

rum harum anomalarum præcipua, quæ in tabula depingitur, corpus habet ovato-clongatum, fuperficie paululum exasperata. Augent præterea in certis speciminibus hanc scabritiem variæ serpularum, fertulariarum, aliorumque animalium parasiticorum, ut vocantur, species, quæ corporibus solent adhærere. Sunt in corpore Afcidiæ clavatæ duo foramina, alterum non procul a fummo, alterum longe inferius fitum, limbo seu margine paululum levato circundata, e quibus, fi irritetur, aquam ejaculatur more reliqui generis. Stipes interdum vix octo vel novem unciis brevior, in variis speciminibus varie inclinatus, nec in ullis omnino rectus, lævis est, et fere corpori concolor, seilicet terreo-fuscus, paululum pallens, interdum rubens. In oceano feptentrionali circa annum millesimum septingentesimum feptuagesimum primo detecta est species quam descripsimus.





# CLAVATE ASCIDIA.

# GENERIC CHARACTER.

Body fixed, approaching more or lefs to a cylindric shape; in some species sessile; in others supported on a pedicle.

Apertures (in most species) two: situated towards the upper part; one lower than the other.

#### SPECIFIC CHARACTER.

LONG-STALKED ASCIDIA, with elongated oval body and two lateral apertures.

The Afcidiæ in general adhere by their base to rocks, stones, and other submarine substances. They are mostly of an oblong form, somewhat thicker at the upper part than at the lower. There are however two or three species which are surnished with a long stalk, or tubular stem, which gives them an appearance widely different from the rest of their congeners. Of these anomalous species the animal here represented is the most remarkable. The body is of an elongated oval shape, and of a somewhat roughened surface: this appearance is also in some specimens still increased by various species of serpulæ,

pulæ, fertulariæ, and other parasitical animals, which adhere to it in various parts. The body has two foramina; one seated at a small distance from the upper part, and the other considerably lower: both are surrounded by a protuberant rim or circle. Through these holes, when irritated, it discharges water, like others of this genus. The stem is of a very considerable length; sometimes not less than eight or nine inches. It is differently inclined in different specimens, and is scarce ever perfectly straight. It is of a smooth surface, and nearly of the same colour with the body, viz. a pale earthly brown, and sometimes reddish. This most curious animal was first discovered about the year 1770 in the Northern Ocean.

# MADREPORA ASTROITES.

CHARACTER GENERICUS.

Animal Medusa.

Corallium cavitatibus lamellofo-stellatis.

Lin. Syst. Nat. p. 1272.

CHARACTER SPECIFICUS, &c.

MADREPORA SUBGLOBOSA, stellis distinctis innumeris undique aspersa.

MADREPORA COMPOSITA, stellis confertissimis immersis disco concavo-cylindrico. *Lin. Syst. Nat.* p. 1276.

MADREPORA RADIANS.

Pall. el. 200ph. p. 322. n. 190.

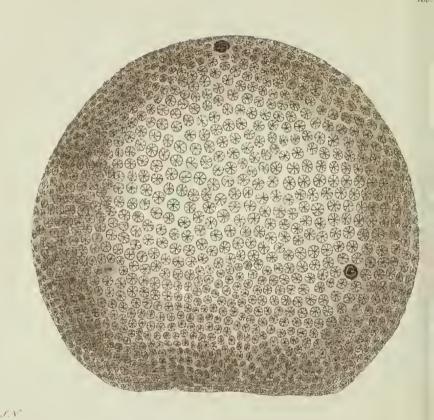
ASTROITES GLOBOSUS, &c.

Seb. mus. 3. p. 208. n. 9. tab. 112. f. 9. 12. 14. 17. 18.

Cum Madreporam hanc plene describat character fpecificus, plura forsan supervacaneum sit dicere, nisi de magnitudine, qua Madreporæ illi quam vocant Cerebrum æqualis est. Eadem quoque maria F inhabitat,

inhabitat, nec raro foramine rotundato vel pluribus notatur, quæ interdum ob ipfa natura excavata videntur, circaque quæ animalia quæ corallium ædificare creduntur opus fuum incoharunt, alias fimiliora funt cavis labore terebellarum quarundem effictis.





London - Sublished Och Porgs by F. A. Nolder & Ca Vis Brewer Some .

#### THE

# STARRY GLOBE-MADREPORE.

Q\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

GENERIC CHARACTER.

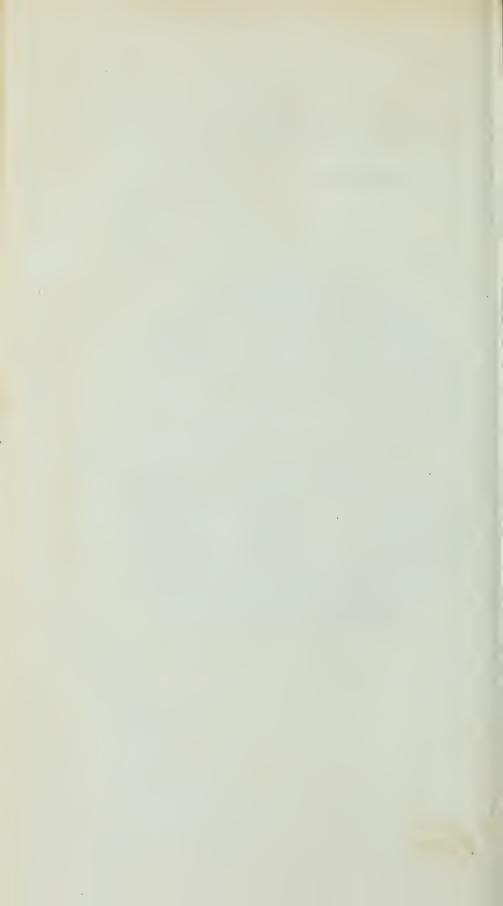
Animal refembling a Medufa.

Coral marked with lamellar striated cavities.

SPECIFIC CHARACTER.

NEARLY GLOBOSE MADREPORE, marked with innumerable star-shaped cavities.

This Madrepore is fo fully described in its specific character as to require little to be added except the fize of the coral, which equals that of the Brain-Madrepore. It is a native also of the same seas; and like that species, is not unfrequently marked by one or more round perforations, which sometimes bear the resemblance of natural excavations round which the animal sabricators of the coral have begun their operations, and at other times have more the appearance of the perforations of some species of Terebellæ.



# YUNX TORQUILLA.

<del></del>

#### CHARACTER GENERICUS.

Rostrum teretiusculum, acuminatum.

Nares concavæ, denudatæ.

Lingua teres, lumbriciformis, longissima, apice mucronata.

Pedes scansorii.

Lin. Syst. Nat. p. 172.

CHARACTER SPECIFICUS, &c.

YUNX ex albo, grifeo, nigro, et ferrugineo varia

JYNX s. TORQUILLA.

Bell. av. 76. a.

CUCULUS fubgrifeus maculatus, rectricibus nigris fafciis undulatis.

Lin Faun. Suec. 1. p. 78. t. 1. f. 78.

YUNX TORQUILLA.

Lin. Syst. Nat. p. 172.

TORQUILLA STRIATA.

Briff. av. 4. p. 7.

Varias Europæ partes incolit Torquilla, coloribus infignis elegantissime dispositis; e quibus conjunc-

tis eximia exoritur pulchritudo, cum forsan sigillatim confpectis vilescat pretium. In Angliam Aprili menfe involat, cumque pullos aluerit, autumno vix finito, aliam fibi fedem quærit. Facillima auditu raro conspicitur: fallit enim oculos color cortici arboris nec longo intervallo fimillimus, aures feriente rapida et canora voce citissime iterata. Vivitur Torquilla eodem fere modo quo picis; linguaque est huic, ut et illis longissima, retractilis, quam ejaculando inter corticis rimas latitantia infecta prædatur. More quoque picorum ova deponit in arborum foraminibus, nidum pene nullum struens, sed molli ligno putrido infidens. Ovis dum incubat femina (quæ interdum quinque parit, interdum octo, alba admodum et femi-pellucida) collum corpusque, si turbetur, miro modo contorquet quasi minitans: unde nomen Torquilla. Narrat doctiffimus Derhamus in præcellenti libro Physico-Theologico, fe puerum ab hac ave non femel perterritum fuisse, nec e foramine, quo nidificarat ova aufum effe furripere, quafi a ferpente repulfum. Latet interdum nidus in cavo altissimo; ut vix discerni posfit: quod fi quis avem tangere conetur, illico more ferpentum fibilat; quod fibilum ipfi etiam pulli fortiter emittunt. Notandum est tantam esse Torquillæ cum cuculo affinitatem, ut ab ipso Linnæo semel in eodem genere conjuncta fit.





# THE WRYNECK.

#### GENERIC CHARACTER.

Bill roundish, slightly incurvated, weak.

Tongue very long, cylindric, missile, hard-pointed.

Feet scansorial, i. e. two toes forward and two backward.

# SPECIFIC CHARACTER, &c.

YUNX (WRYNECK) varied with black, white, grey, and ferruginous.

THE WRYNECK.

Will. orn. p. 138. t. 22.

LE TORCOL.

Briff. orn. 4. p. 4. pl. 1. f. 1. Buff. oif. 7. p. 84. pl. 3. Pl. cnl. 698.

The Wryneck, fo remarkable for the elegant difposition of its colours, which tho' singly confidered are far from brilliant, yet in combination produce so beautiful an effect, is a native of several parts of Europe. In our own country it appears in the month of April, and after the breeding season

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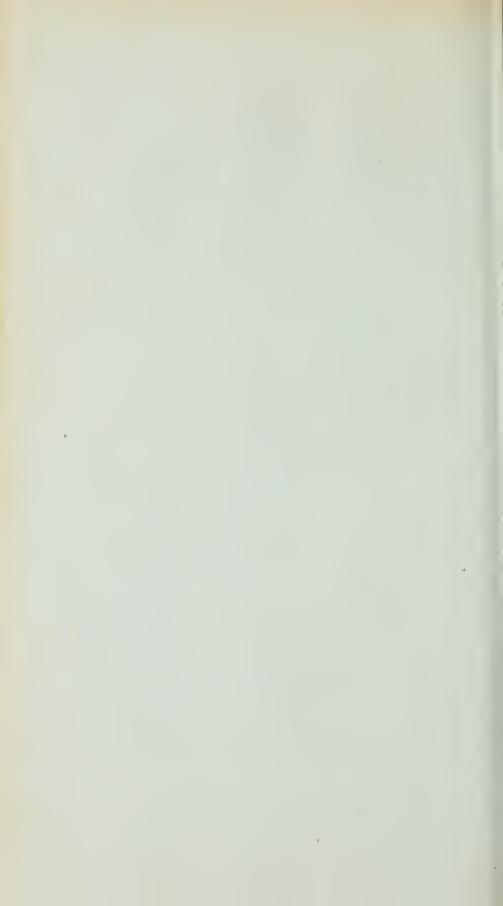
is over, again migrates before the appearance of winter, or during the autumnal feason. Though by no means uncommon, it is much more frequently heared than feen; its note, which confifts of a quick succession of several shrill tones, being one of the most predominant amongst the vernal birds; while its colour bears so near a resemblance to the bark of the trees it frequents, as to be inconspicuous except on a very near approach.

In its mode of life the Wryneck bears a very flrong affinity to the woodpecker tribe; and like

those birds, is furnished with a very long, missile tongue, which it darts into the crevices of trees, and thus catches the infects they contain. It lays its eggs in the holes of trees, in the manner of a woodpecker; making scarce any nest, but contenting itself with the soft surface of the decayed wood. The eggs are from sive to eight in number, very white, and semitransparent. When the semale is engaged in incubation, she has a habit, when disturbed, of wreathing herself into a number of extraordinary postures in a threatening manner. It is from this circumstance that the name of Wryneck has been given to the bird. The celebrated Der-

ham in his Physico-Theology observes that, when a boy, he has more than once been deterred by these threatening contorsions from taking the eggs of the Wryneck, "daring no more to venture his hand into the hole than if a serpent had lodged in it." They sometimes, however, build in a hole so deep as to be perfectly secure from attacks of this kind; but if an attempt is made to reach them, they his

in the manner of ferpents; and even the young exert this faculty in a most striking degree. I should observe that the Wryneck bears some affinity to the Cuckow, with which it was once associated in the same genus by Linnæus.



#### PAPILIO ATALANTA.

<u></u>

#### CHARACTER GENERICUS.

Antennæ apicem versus crassiores, sæpius clavatocapitatæ.

Alæ (fedentis) crectæ furfumque conniventes (vo-latu diurno.)

Lin. Syft. Nat. p. 744.

## CHARACTER SPECIFICUS, &c.

PAPILIO alis dentatis nigris albo maculatis: fafcia communi purpurea: primoribus utrinque, posterioribus marginali.

Lin. Syft. Nat. p. 779. Nymphales phalerati.

PAPILIO tetrapus; alis denticulatis nigris albomaculatis: omnibus fafcia arcuata coccinea.

Lin. Faun. Suec. 1. n. 777.

Mouff. p. 100. f. 3. 4. Mer: europ. 2. p. 41. t. 91. Roes. inf. 1. t. 6. Degeer. inf. 1. t. 22. f. 5.

In formofissimis, quotquot generat Britannia, infectis habendus Papilio Atalanta ex eruca oritur, quæ quæ plerumque urticæ vulgaris, cui infidere folet, folia depafcitur. In pupam feu chryfalidem menfe Julio et Augusto ut plurimum convertitur, e qua diebus fedecim feu octodecim erumpit papilio.

Pleraque infecta lepidoptera fimul atque e chryfalide liberantur, vel cum primæ fe fugæ commiferint, guttas aliquot liquoris cujusdam colorati, ut plurimum magis minusve rubri, solent emittere. Hoc in pluribus speciebus communibus sæpissime cernitur, in papilione scilicet urticæ, Atalanta, Polychloro, reliquisque; et ut taceam simile quiddam velle naturam in cæteris animalibus recens natis, dignum est ut præcipue notetur, cum optime explicet phænomenon non modo antiquis temporibus sed et recentiorbus prodigii loco habitum; guttarum nempe sanguinearum ab acre descensum, quem memorant varii scriptores, Ovidius præcipue inter portenta quæ, trucidato Cæsare, Romanorum animos turbarunt.

- " Sæpe faces vifæ mediis ardere fub aftris:
- " Sape inter nimbos guttæ cecidere cruentæ."

Rem miram, quæ diu crux erat philosophorum, verismiliter explicasse primus videtur celeberrimus Peirescius, qui in Gallia anno millesimo sexcentesimo octavo suis oculis phænomeni vestigia examinavit, sibique persuassissimum habuit provenisse guttulas rubras e papilionis specie, papilione fortasse urticæ id temporis præter solitum abundante, præcipue prope loca ubi nimbus cruentatus ceciderat. In hanc sententiam ivit Swammerdamus, qui tamen non autontos fuisse videtur. Eo me magis de hac

re recte intelligenda folicitum fentio, quod noverim auctorem, cujus nomen me jam esfugit, non modo de causa hujusmodi imbris sed et de ipso imbre omnino dubitasse. Satis tamen probavit Peirescius oculatus testis revera devenisse a papilionibus circumvolitantibus humorem prædictum quasi sanguine rubentem; cumque de eo sententiam sirmaverit accuratissimi Swammerdami judicium, vix possit dubitari quin peritissimo rum horum hominum sagacitas rem disicillimam acu tetigerit.

### ATALANTA.

\* O+\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### GENERIC CHARACTER.

Antennæ or Horns thickening towards the upper part, and generally terminating in a knob, or club-shaped tip.

Wings (when fitting) erect, and meeting upwards. (Flight diurnal.)

### Specific Character, &c.

BLACK BUTTERFLY fpotted with white: the upper wings marked by a transverse, the lower by a marginal band of crimson.

THE ADMIRABLE BUTTERFLY.

Harris, Aur. t. 6, f. a—h.

THE ADMIRAL BUTTERFLY.

Albin. t. 3.

The Papilio Atalanta is one of the most beautiful of the British infects, and proceeds from a caterpillar which feeds on the leaves of the common nettle. It generally changes to a chrysalis in the month of July or August; from which, in about the





the space of fixteen or eighteen days, emerges the complete infect.

The papilionaceous infects in general, foon after their enlargement from the chryfalis, and commonly during the first flight they take, discharge some drops of a coloured fluid, which in many species is of a red, more or less intense. This may be frequently observed in some of the most common species, as the P: urticæ, Atalanta, Polychloros, &c. and is a circumstance which, exclusive of its analogy to the fame process of nature in other animals, is peculiarly worthy of attention from the explanation which it affords of a phenomenon fometimes confidered both in ancient and modern times in the light of a prodigy, viz. the defcent of red drops from the air, which has been called a shower of blood: an event recorded by feveral writers, and particularly commemorated by Ovid amongst the prodigies which took place after the death of the great dictator.

"Sæpe faces visæ mediis ardere sub astris:

"Sæpe inter nimbos guttæ cecidere cruentæ."

With threat'ning figns the low'ring fkies were fill'd, And fanguine drops from murky clouds diffill'd.

This highly rational elucidation of a phenomenon, at first view so inexplicable, seems to have been first proposed by the celebrated Peiresc, who with his own eyes observed the vestiges of an appearance of this kind in France in the year 1608, and was clearly convinced of its real origin, viz. the discharge above mentioned, proceeding from a species of buttersly, probably the P: urticæ, which happened during that season to be uncommonly plentiful in the particular district where the phenomenon was observed. The same idea was also entertained by Swammerdam, though he does not appear to have verified it from his own observations.

I am the more particular on this subject, as I have seen in some author, whose name I do not at present recollect, this solution, and even the appearance itself, regarded as in the highest degree improbable: but the ocular attestation of so eminent a character as Peiresc, and the full persuasion of a reasoner like Swammerdam, are surely sufficient to establish not only the credibility, but the certainty, both of the phenomenon itself and its explication.

### CORALLINA OFFICINALIS.

<del></del>

CHARACTER GENERICUS.

Animal? crefcens habitu plantæ. Stirps fixa. Rami articulati, ramulofi.

CHARACTER SPECIFICUS, &c.

CORALLINA fastigiata subbipinnata vel trichotoma, articulis subturbinatis.

corallina fubbipinnata, articulis fubturbinatis.

Lin. Syst. Nat. p. 1304.

CORALLINA alba officinarum.

Park. theatr. 1296.

Cum in genere Corallinarum species, ut plurimum, sint parvylæ et minutæ, hinc sit ut materia animalis, quæ in coralliis majoribus satis patet, in his nunquam adhuc pro certo explorata sit. Quod tamen hanc ob causam possit concedi quod ab analogia valde probabile sit; nec temere conjiciendum est nulla esse omnino incolentia animalia, eorum licet, ob exiguitatem pororum, qui ipsi non nisi microscopii ope cernuntur, vestigia frustra quærantur:

nec de his dubitasse videtur solertissimus Linnæus, quippe qui sirmiter crediderit omnem calcariam substantiam ab animalibus esse exortam. Hujus corallinæ maxima copia racemosa quasi et conglomerata crescit in rupibus sub mari immersis, juxta littora pleraque Europæa. Colore ob plurimas causas variat, estque vel subpurpurea, vel subviridis, interdum etiam, præcipue si nimium soli exponatur, fere alba. In therapeutice magni olim erat nominis, et inesse credebatur illi vis quædam vermisugans; quam opinionem uno sere consensu denegant ridentque peritissimi omnes horum temporum medici.





N Landon, Published Novertryg by F. S. Nodder & C.N. & Brown Street

### COMMON CORALLINE.

GENERIC CHARACTER.

Animal? growing in the form of a plant.

Stem fixed. Branches jointed, fubdivided.

SPECIFIC CHARACTER, &c.

CROUDED OR CLUSTERED CORALLINE with doubly-pinnated and fometimes trichotomous branches, and turbinated joints.

ENGLISH CORALLINE.

Ger. emac. p. 1571.

CORALLINE of the shops.

Ellis. corall: p. 48. t. 24. f. a. &c.

SEA CORALLINE.

Ray Synops. cd. 3. p. 33.

In the genus Corallina, most of the species of which are very small, the animal nature, so apparent in many of the larger corals, is not yet clearly ascertained. It is however from analogy to be supposed; and though the pores which a microscopical survey discovers on the surface of these productions are

are fo extremely fmall as not to admit of a view of any animal inhabitants, yet this circumstance is not fufficient to disprove the existence of such. Linnæus appears to have been convinced of the animal nature of this genus, merely from the circumstance of its being of a calcarious fubstance; according to his established idea of all calcarious matter proceeding from the animal kingdom. The present species of coralline is found in great abundance on the fubmarine rocks about most of the European coasts; growing in clustered tufts. Its colour varies according to circumstances; being sometimes purpliff; at other times greenish; and sometimes, efpecially where much exposed to the fun, nearly white. It once maintained a very respectable character in the materia medica, and was particularly celebrated for its anthelmintic powers; which the more illuminated cast of modern practice almost univerfally denies it.

#### ALCEDO? PUSILLA.

**0**\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### CHARACTER GENERICUS.

Rostrum trigonum crassum, rectum, longum. Lingua carnosa, brevissima, plana, acuta. Pedes gressorii plerisque.

Lin. Syst. Nat. p. 178.

#### CHARACTER SPECIFICUS, &c.

ALCEDO? cærulea, fubtus fulva, macula colli utrinque purpurea.

#### TODUS CÆRULEUS?

Lath. ind. orn. p. 266. Gmel. Syst. Nat. 1. p. 444.

Alcedinis pusillæ sui generis longe minimæ, ostendit tabula veram et naturalem magnitudinem. Generat eam India Orientalis. In Sumatra etiam frequens conspicitur.







## MINUTE KINGFISHER.

#### GENERIC CHARACTER.

Bill trigonal, thick, strait, long, sharp-pointed. Tongue fleshy, very short, flat, sharp-pointed.

Feet (in most species) gressorial, i. e. three toes forward and one backward; and the three lower joints of the middle toe closely joined to those of the outmost.

Linnæus and Pennant.

# SPECIFIC CHARACTER, &c.

SMALL BLUE KINGFISHER? (Tody?) fulvous beneath, with a purple fpot on each fide the neck.

LE TODIER BLEU à ventre orangé.

Buff. oif. 7. p. 229.

TODIER DE JUIDA?

Pl. enl. 783. f. 1.

This bird is beyond comparison the smallest of the Kingsisher tribe. The plate represents it in its natural size. It is a native of the East Indies, and is also common in Sumatra.



### CANCER DIOGENES.

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#### CHARACTER GENERICUS.

Pedes octo (rarius fex aut decem;) infuper manus duæ chelatæ.

Palpi sex inæquales.

Oculi duo distantes, plurimis pedunculati; elongati, mobiles.

Mandibula cornea, crassa.

Labium triplex.

Cauda articulata, inermis.

Lin. Syft. Nat. Gmel. p. 2963.

### CHARACTER SPECIFICUS, &c.

chelis lævibus pubefcentibus: finistra majore.

Lin. Syst. Nat. p. 1049.

Rumph. mus. t. 5. f. K. L.?

Catesb. Car. 2. t. 33. f. 1. 2.

Infectorum, quæ miro et fingulari modo formata complectitur genus *Cancer*, numerofissimas species in phalangas pro vario corporis habitu distribuere prorsus necesse est, ut facilius dignosci possint. E cancris nonnulli corpore brevi funt et quasi suborbiculato,

biculato, cujus diametros transversa non raro songitudinem superat. Alii forma sunt gracili et elongata; alii admodum spinosi seu muricati; alii omnino læves. Sunt qui chelis maximis validifque armantur; funt etiam quorum pedes imbelles et inermes. Aliis denique vasta est et infignis magnitudo; aliorum mira tenuitas efficit ut fingulæ partes non nisi microscopii ope satis examinari possint. Quæ in hoc genere continentur animalia crustas seu exuvias certis intervallis folent exuere; fub quod tempus artus gradatim contrahuntur et exiliores fiunt, ut e chelis reliquaque crusta sacilius liberentur: quo facto, in latibulo quiefcit cancer paucos dies donec novum tegmen satis induruerit, quod primo membranaceum potius est quam crustosum. Membrum amissum, quod plerisque animalibus gravissimum foret et irreparabile, parum aut nihil queruntur cancri; paucis enim septimanis excrescit alterum novum et integrum. Immo quasi scientes infevisse iis naturam facultatem repullulandi, si membrum aliquod læfum fuerit aut contufum, non expectant donec fanetur, fed fubito et violento nifu veluti impedimentum abjiciunt, et in locum tutum et quietum fe recipiunt, parte mox redintegrata gavifuri. Universo sere cancrorum generi mira inest foecunditas; cujus infigne exemplum est in illo qui Aftacus dicitur, unde duodecim millia ovorum fingulo partu excluduntur. Gulæ dediti et animalibus et vegetabilibus vescuntur. Cancer quem describimus inter eas species militat quæ crusta seu tegmine postico destituuntur, quæque igitur testas univalves, fi quas in litore invenerint vacuas et idonee formatas, intrantes incolunt, corpore in testam immerso, chelis exertis. Cancrorum qui molles seu parasitici vocari solent præcipuæ species sunt Bernardus et Diogenes. Diogenem depinximus, qui plerumque testam muricis, buccini, turbinis, vel neritæ inhabitat, unde et nomen adeptus est, quod testa eodem modo utatur quo celebris iste pseudo-philosophus dolio suo. Figura prima monstrat animal testa inclusum, secunda testa exutum.

Nec prætereundum est insigniter in cancris aberrare naturam a generali suo consilio, quo cautum est
ut omnes corporis partes utrinque sibi invicem respondeant. Ex illis enim multi chelas gerunt ab
hoc latere immodicas, ab illo tenues et exiles; cogiturque cancer vocans et alii nonnulli brachium
grande et incommodum inter ambulandum dorso
imponere. Notandum porro est chelas magnas,
quæ ut plurimum sunt a dextro latere interdum esse
a sinistro; quod idem testis nonnullis univalvibus
accidere notissimum est, quarum ora nunc dextrorsum nunc sinistrorsum sita sunt.









Soudon, Substilled Deer Progs, by F.P. Nolder of P. Vis Brower Street.

#### THE

## DIOGENES CRAB.

**\++++\*\*+\*\*** 

#### GENERIC CHARACTER.

Feet commonly eight, (in some species six or ten) besides two chelated ones.

Palpi or Feelers fix, unequal.

Eyes two, distant, in most species footstalked; elongated, moveable.

Mandible thick.

Lip triple.

Tail articulated, unarmed.

### Specific Character, &c.

ELONGATED PARASITIC CRAB, with fmooth pubefcent chelæ, of which the left is largeft.

THE INDIAN HERMIT-CRAB.

THE VIOLET-CLAWED HERMIT-CRAB

The genus Cancer is distinguished not more by the singularly curious shape and appearance of the infects it contains, than by the vast variety of species cies into which it is divided; the number of which is fo great that it is found entirely necessary to subdivide them into sections according to their different shape or general habit, in order that they may the more readily be investigated. Some are of a short, thick, and nearly orbicular form, and sometimes the transverse diameter of their body considerably exceeds the longitudinal: others are of a thin and long form: some are strongly muricated; others perfectly smooth: some are furnished with very strong and large chelæ or claws; others have only weak, unarmed sect: lastly, some are remarkable for their great size, while others are so diminutive as to require the assistance of glasses in order to determine the structure of their several parts.

The animals of this genus cast their shells from time to time. When this period approaches, the limbs gradually shrink or waste in fize, so as to enable them to be drawn with the greater eafe from the claws and other parts of the shell. The animal then lies in a quiet state for some days, till the new fhell is formed, or rather till it is hardened; for at first it is rather membranaceous than crustaceous. The lofs of a limb, an accident fo dreadful and irremediable to the major part of the animal world, is to these creatures of but little importance; since the space of a few weeks supplies the defect, and restores them to their sormer state. What is still more wonderful, these animals, when injured, maimed, or bruifed on any particular limb, do not wait for the process of a gradual recovery of that individual part, but, as if conscious of the power of reproduction,

production, voluntarily cast off with sudden violence the offending member, and betaking themfelves to a state of retirement, await the formation of their new limb. Most of the genus are very prolific animals. The female of the common Lobster produces upwards of twelve thousand eggs each time of laying. They are of a very voracious nature, and feed on animal as well as vegetable fubflances. The species of cancer here represented is one of those which have the body naturally destitute of a shelly covering; in consequence of which they never fail to take possession of such vacant univalve fhells as happen to fuit their convenience; the body: being immerfed in the shell, while the claws remain exferted. Amongst these parasitical or soft-bodied fpecies the two most remarkable are the Cancer Bernardus and the Cancer Diogenes. It is the latter of these which is figured on the present plate; the first figure shewing the animal in the shell, the fecond reprefenting it divested of its covering. It is generally found inhabiting the shell of a Murex, Buccinum, Turbo, or Nerite, and has obtained the title of Diogenes from its residing in this convenient receptacle as that celebrated pseudo-philosopher is reported to have done in his tub.

I should not difmiss this article without observing that the genus cancer affords a curious example of deviation from that general symmetry of parts so conspicuous in most other animals; in which the shape of the body and limbs on one side exactly corresponds to that of the other. Many of the Cancri, however, are surnished with a pair of chelæ

on one fide of immoderate fize, while those of the opposite fide are thin and small; and in some particular species, as the C: vocans, &c., the fize of the large arm is so great as to oblige the animal to support it on its back, in which position it is generally placed while the creature is walking. It may likewise be added that this is a particularity which is sometimes reversed; a circumstance which takes place, as is well known, in the univalve shells.

# SQUALUS OCELLATUS.

#### CHARACTER GENERICUS.

Spiracula quinque ad latera colli. Corpus oblongum teretiufculum. Os in anteriore capitis parte.

Lin. Syft. Nat. p. 397.

#### CHARACTER SPECIFICUS, &c.

SQUALUS fubfasciatus fusco maculatus, ocello utrinque nigro supra pinnas pectorales.

SQUALUS litura magna rotunda nigra, circulo albo cincta, ad utrumque colli latus.

Syft. Nat. Gmel. p. 1495.

Continentur in genere hoc voraci et exitiofo nonnullæ species quæ non modicam elegantiam jactare possumt. Exemplo sit illa in tabula depicta, quæ non modo corpus habet satis concinnum, maculasque æqualiter dispositas, sed etiam notis duabus nigris, permagnis, rotundis seu potius leviter ovatis insignitur, utrinque super pinnas pectorales sitis, alboque simbo circundatis in oculorum similitudinem. In numero est hæc species minorum squalorum, nasciturque in maribus australibus.







London Bellested Live or rygs by it I woodler if y, I is Bourn line

#### THE

#### OCELLATED SHARK.

**•** 

#### GENERIC CHARACTER.

Spiracula five on each fide the neck.

Body oblong, fomewhat cylindric.

Mouth fituated beneath in the fore part of the head.

### SPECIFIC CHARACTER, &c.

SUBFASCIATED SHARK, with dufky fpots, and a black ocellated mark on each fide above the pectoral fins.

Oeillé.

Brouffon. act. Paris, 1780. p. 660. n. 10.

Amongst this voracious and destructive tribe there are some species which possess no inconsiderable degree of elegance. Of this the fish here represented is a remarkable instance, which, exclusive of the general neatness of its appearance and the regular distribution of its spots, is distinguished by two very large and beautiful round, or rather slightly oval black marks, situated on each side, immediately

ately above the pectoral fins. These spots are surrounded by a margin of white, so as to resemble a pair of eyes. This animal is one of the smaller sharks, and is a native of the Southern Seas.

# MEROPS APIASTER.

### CHARACTER GENERICUS,

Rostrum curvatum, compressum, carinatum. Lingua apice laciniata, Pedes gressorii.

Lin. Syst. Nat. p. 182.

### CHARACTER SPECIFICUS, &c.

MEROPS dorfo ferrugineo, abdomine caudaque viridi-cærulescente, rectricibus duabus longioribus, gula lutea.

Lin. Syst. Nat. p. 182.

#### MEROPS.

Bell. av. 16.

Gesn. av. 599.

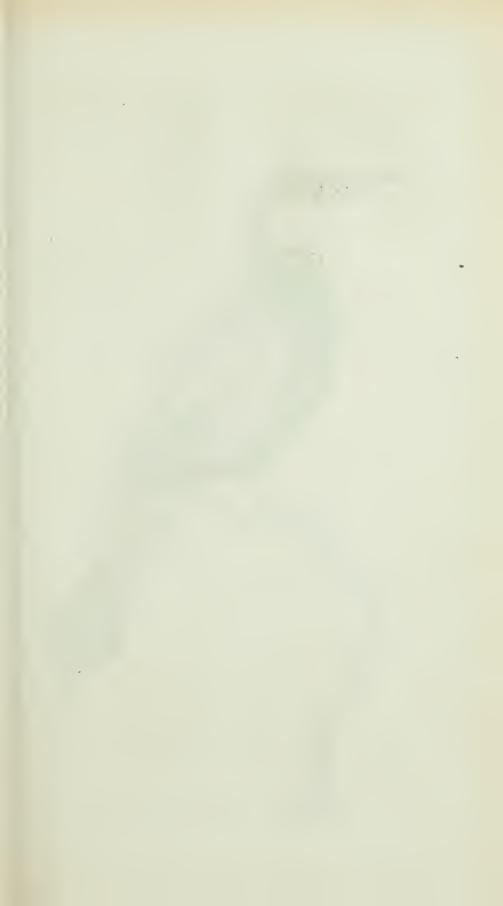
Aldr. 1. p. 871.

### APIASTER.

Briff. av. 4. p. 532. n. 1.

Formosam hanc avem, quam ignorat Britannia, alunt calidioris Europæ variæ regiones; Græcia nec non insulæ quæ in Ægæo mari abundanter,

Creta autem præcipue, in qua exerceri dicitur lepida ista et aeria avium quasi piscatio, cujus meminit Bellonius. Cicada nempe vel aciculæ incurvatæ vel hamo piscatorio assixa e silo longissimo in altum projeitur, in quam celerrime volantem Merops, infectis sedulo invigilans, simul atque adspexerit subito impetu involat, et esca avide devorata, cedit ipse in prædam pueris Cretensibus. Nidum e musto consectum ponit Merops Apiaster in ripis sluviorum.





#### THE

### EUROPEAN BEE-EATER.

**◇\*\*\*\*\*\*\*\*\*\*\*\*** 

#### GENERIC CHARACTER.

Bill curved, compressed, carinated, and sharp-pointed.

Tongue (generally) laciniated at the tip.

Feet grefforial, i. c. three toes forward and one backward; and the three lower joints of the middle toe closely joined to those of the outmost.

### SPECIFIC CHARACTER, &c.

BEE-EATER with the back ferruginous, the abdomen and tail blue-green, the two midade tail-feathers longer than the rest, the throat yellow.

THE COMMON BEE-EATER OR MEROPS.

THE BEE-EATER.

Will. p. 147.

LE GUÉPIER.

Buf. 6. p. 480. t. 23. Pl. enl. 938.

This beautiful bird is a native of many of the warmer parts of Europe, but is never feen in the I 2 British

British dominions. It is extremely common in Greece and the islands of the Archipelago; and in Crete is more peculiarly plentiful. It is in this latter island that the curious mode of bird-catching described by Bellonius is said to be frequently practifed with success, viz. a cicada is sastened on a bent pin, or a sish-hook, and tied to a long line. The infect when thrown from the hand, ascends into the air, and slies with rapidity; the Merops, ever on the watch for infects, seeing the cicada, springs at it, and swallowing the bait, is thus taken by the Cretan boys. The Bee-Eater builds in the banks of rivers, and forms its nest of moss.

## VENUS DIONE.

**○**↑↑+++++++++++++

CHARACTER GENERICUS.

Animal Tethys.

Testa bivalvis æquivalvis, altero latere complanato et velut duplicato.

Cardo dentibus tribus: omnibus approximatis; lateralibus apice divergentibus.

CHARACTER SPECIFICUS, &c.

VENUS SUBCORDATA, latere complanato serie duplici spinarum curvarum ciliato.

PECTUNCULUS RUBER, fasciis acutis et ex altera parte muricatis exasperatus.

List. Concb. t. 307. p. 140.

CONCHA BRASILIANA CUSPIDATA.

Bonanni Muf. Kirch. Cl. 2.
n. 121. p. 448.

CONCHA VENERIS ARMATA.

Jacobæus in Muf. Reg. D.m.

PECTUNCULUS VENEREUS.

Pet. gazopb. t. 31. fig. 9.

CONCHA ECHINATA.

Valent. Muf. Museor. t. 35. n. 19.

CONCHA VENERIS occidentalis cum fpinis.

D'Argenville. t. 21. f. 1.

Concham raram et elegantem oftendit tabula, qua nihil injuriarum passa vix pretiosiorem continet hodiernorum diernorum museorum serinia. At disicillimum est specimina nancisci integra et illæsa, ea præcipue quæ ad plenam magnitudinem pervenerint.

Venerem Dionem, quam generant maria Americana, primus descripsit et depinxit Bonannus? Color illi generalis est levissime incarnatus, seu sere albidus; valvula utraque zonis plurimis levatis et concentricis extrinsecus notata. Pars posterior seu complanata in variis speciminibus plus minus est purpurea, et spinarum curvarum utrinque serie laterali ciliata; unde sit, ut si e transverso testam intuearis, non longe oculo absimilis videatur, vel etiam ori ringenti quadrupedis. Cum species numerosissimas contineat genus, multisque egregium sit decus, nomen ideo ei datum est quod puchritudinem denotet.

Venerem feu Dionem e mari anadyomenen toties celebrarunt poctæ, ut fupervacaneum forfan habeatur de re notissima quicquam dicere. Bellum tamen Aufonii epigramma liceat citare.

"Emerfam pelagi nuper genialibus undis
Cyprin Apellei cerne laboris opus.
Ut complexa manu madidos falis a quore crines
Humidulis fpumas flringit utraque comis
Jam tibi nos Cypri, Juno inquit et innuba Pallas
Cedimus, et forma præmia deferimus."

At vel Aufonio felicius cecinit celeberrimus Darwin, in eximio poemate cui titulus Hortus Botanicus, cujus verfus in linguam Latinam eleganter adeo transtulit eruditus quidam amicus, ut si quod

ille scripsit in scriniis incditum servem, persuasissimum habeam me a publica delectatione detracturum.

Addidi et egomet arettiorem, humiliorem, et quafi centonicam imitationem.

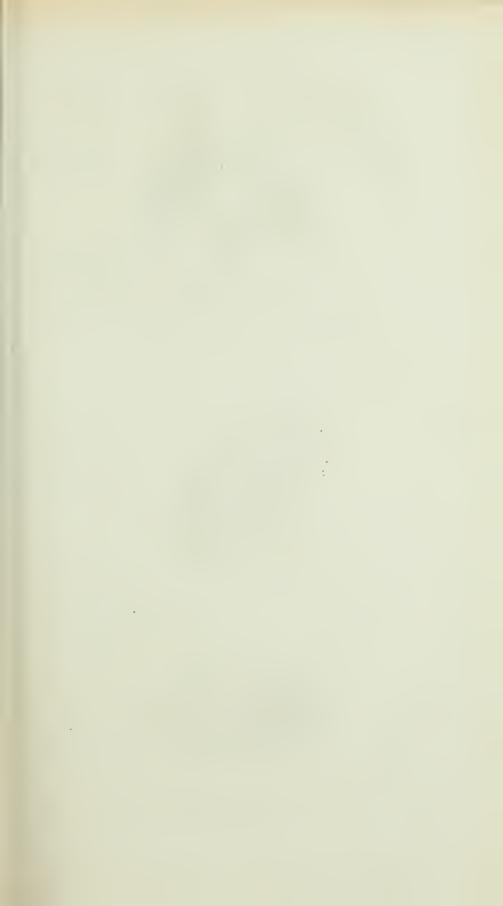
"Sie primum vitreum fugiens Erycina profundum, Nereidumque domos, patrio jam debita cælo, Surgit ad æthereum folem pulcherrima rerum, Cæruleis emerfa vadis: rutilante fedentem Hanc concha manibus tollunt fubmiffe iphiantes Semiviri, vifufque avidos pafcuntur amore. At leve fubridens falfam dea crine foluto Humorem, liquidas et gemmas exprimit; illæ Defiliunt niveis finuofo tramite mammis Protinus, et placide lambunt juvenilia membra. Præfentis valet interea vis vivida formæ. Sternitur attonitum pacatis fluctibus æquor Immenfum, vix jamque tremit, memtque moveri. Mollius afpirant zephyri, funul æthera stillant Ambrofiam, et toto nova regnat in orbe voluptas."

#### IMITATIO CENTONICA.

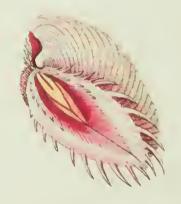
Sic alto enata oceano, fi credere fas fit,
Alma Venns quondam pelagi gratissima nymphis,
Muscosos inter seopulos cautesque profundas
Lusit amabiliter; vitreisque si dilibus hærens
Dulcia subridens immiscuit est ula verbis,
Et finxit vultum, et meruit formosa videri:
Jam teneros experta jocos, nec egena leporum.
At mox tota merum sal, plena et sulgida forma,
Tritonum manibus solio subvesta virenti
Sedibus ex imis, pacato in marmore ponti
Institit, attonitas despectans desuper undas:
Qualis ubi e cælo radiis argenteus almis

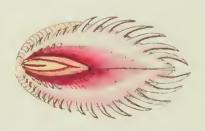
Lucifer

Lucifer assurgit, ridentemque undique terram Vivisicat, pictos revocans ad gaudia campos. Ut roseis cæpit digitis siccare capillos, Per caput errantes guttæ et per eburnea colla Suave micant; dein terga petunt, humerosque latusque Pectoraque, et salsis stellantes roribus artus. Continuo natura Deam mirata salutat, Et manisesta Venus cælo terrisque renidet.









Sander Sale at Jan you gos by F. P. Noadstor of New Brown Some

# VENUS DIONE,

OR THE

### OCCIDENTAL VENUS-SHELL.

<u></u>

GENERIC CHARACTER.

Animal refembling a Tethys.

Shell bivalve; Valves fimilar, flattened on one fide and furnished with a duplicature.

Hinge confisting of three teeth, approximated, the outer ones diverging.

Specific Character, &c.

SUBCORDATED VENUS, with a double row of incurvated fpines on the flat fide.

THE OCCIDENTAL VENUS-SHELL.

CONQUE DE VENUS occidentale.

Encyclop. Recueil de planches. tom. 6. t. 73. fig. 6.

CONQUE DE VENUS à pointes.

Fav. D'Herbigny Diet. vol. 1. p. 262.

THE VENUS SHELL OR CONCHA VENE-RIS.

Hill's Hist. of Animals. p. 158.

The rare and curious shell represented on the present plate is numbered amongst the most valuable articles

articles of the conchyliological cabinet, and is indeed confidered, when in its complete and unblemished state, as one of the cimelia of modern mufeurns. It is, however, not often that specimens can be obtained which have not fuffered fome accidental injuries, especially those which have attained their full fize. The Venus Dione is a native of the American feas, and was first described and figured by Bonanni? Its general colour is a very pale or whitish pink; each valve is marked externally by a great number of sharpened concentric zones or prominent ribs: the hinder or flattened part is of a purple tinge, more or lefs deep in different individuals, and is ciliated on each fide with a row of curved spines, fo as to give the shell, when viewed in a transverse direction, an appearance not ill refembling that of an eye, or even of the ringent mouth of a quadruped.

As the genus to which it belongs is extremely extensive, and contains several species of uncommon beauty, it has therefore received a name appropriated to the elegance of its form.

The birth of the younger Dione or Venus from the fea has fo often been commemorated by the poets of antiquity, that it would be fuperfluous to relate what must be universally known. It may be sufficient therefore to quote on this subject the elegant epigram of Ausonius on the celebrated picture of Venus anadyomene by the hand of Apelles.

<sup>&</sup>quot; Emerfam pelagi nuper genialibus undis Cyprin, Apellei cerne laboris opus.

Ut complexa manu madidos falis æquore crines
Humidulis fpumas stringit utraque comis
Jam tibi nos Cypri, Juno inquit et innuba Pallas
Cedimus, et formæ præmia deserimus."

Form'd in bold fancy by Apelles' hand,
See Venus on her native ocean stand.
As from the wave in full-blown charms she springs,
And from her hair the dropping moisture wrings,
Juno and Pallas view her with amaze:
In silence on the lovely tablet gaze:
No more at beauty's envied prize repine,
But to the pictur'd fair the willing palm resign.

A still more beautiful description has, however, been given by Dr. Darwin in his celebrated poem The Botanic Garden.

" So young Dione, nurs'd beneath the waves, And rock'd by Nereids in their coral caves, Charm'd the blue fifterhood with playful wiles, Lisp'd her sweet tones, and tried her tender smiles. Then on her beryl throne by Tritons borne, Bright rofe the Goddess like the star of morn; When with foft fires the milky dawn he leads, And wakes to life and leve the laughing meads; With rofy fingers, as uncurl'd they hung Round her fair brow, her golden locks she wrung; O'er the finooth furge on filver fandals flood, And look'd enchantment on the dazzled flood. The bright drops, rolling from her lifted arms, In flow meanders wander o'er her charms, Seek round her fnowy neck their lucid track, Pearl her white fhoulders, gem her ivory back, Round her fine waift and fwelling bosom fwim, And ftar with glitt'ring brine each crystal limb. Th' immortal form enamour'd Nature hail'd, And Beauty blaz'd to heaven and earth unveil'd."

Of this the reader will find in the corresponding Latin part a free translation by the hand of a learned friend, so highly elegant that I cannot resist the pleasure of presenting it to the public.

I have also myself added, in the manner of a cento, a more close imitation of Dr. Darwin's lines.

### PAPILIO IDOMENEUS.

**\$\dagger\$+\** 

#### CHARACTER GENERICUS.

Antennæ apicem versus crassiores, sæpius clavatocapitatæ.

Alæ (sedentis) erectæ sursumque. conniventes, (volatu diurno.)

Lin. Syst. Nat. p. 744.

### CHARACTER SPECIFICUS, &c.

- PAPILIO alis fubcrenatis cærulescenti-fuscescentibus, superioribus fascia semitransversa albida, subtus nebulosis, ocello posticarum maximo.
- PAPILIO alis fubcrenatis cærulescenti-fuscescentibus, fubtus nebulosis: ocellis duobus: postico magno flavescente.

Lin. Syft. Nat. p. 753. Eq. Achiv.

PAPILIO alis fubcrenatis fuscis basi cyaneis, subtus nebulosis, posticis ocello magno slavescente.

Fab. Sp. Inf. t. 2. p. 26.

Inter Papiliones eminet Idomeneus, plerosque congeneres magnitudine exuperans. Alarum superiorum

riorum pars altior coloris est eximie susci, striis aliquot transversis obscurioribus undulati: cyanea est reliqua pars, medio lucidiore. Nec caret pulchritudine alarum superficies inferior quæ susca nubeculis aliquot pallidioribus striisque innumeris nigricantibus variatur; et in utraque ala inferiore macula exstat permagna, nigricans, oculo similis, circulo lato stavente inclusa, qui ipse nigro circundatur. Magno intervallo super magnas has maculas sita est utrinque et alia minor. Americam Australem incolit Papilio Idomeneus.



## IDOMENEUS,

OR

## GREAT OCCIDENTAL BUTTER-FLY.

Q++++++++++++++++++++++++++++

#### GENERIC CHARACTER.

Antennæ or Horns thickening towards the upper part, and generally terminating in a knob, or club-shaped tip.

Wings (when fitting) erect, and meeting upwards. (Flight diurnal.)

## SPECIFIC CHARACTER, &c.

BUTTERFLY with dufky-blue wings: with a femi-transverse whitish bar on the upper pair: the lower surface clouded with different shades, and marked by a very large ocellated spot on each of the lower wings.

Petiv. gaz. 43. t. 28. f. 1. Cram. p.p. 5. t. 52. f. B. t. 390. f. A. B. Mer. Sur. t. 60. Pl. enl. t. 96. f. 1. 2.

This infect is one of the largest of the papilionaceous tribe. The upper half of the superior wings is of a rich brown, undulated with a few deeper transverse strize, while the remainder is of a very deep blue, the middle part more lucid than the rest. The body is brown. It is a native of South America. The under surface of the wings is by no means destitute of beauty, being of a brown colour, varied with lighter clouds, and undulated with innumerable blackish streaks, and on each of the lower wings is an extremely large occllated blackish spot, surrounded by a broad ring of pale yellow, which is again encircled with black. At a great distance above these very large spots on each side is situated a smaller spot of the same form.

# MOTACILLA REGULUS.

<del></del>

#### CHARACTER GENERICUS.

Rostrum subulatum, rectum: mandibulis subæqualibus.

Nares ovatæ.

Lingua lacero-emarginata.

Lin. Syst. Nat. p. 328.

## CHARACTER SPECIFICUS, &c.

MOTACILLA fubvirescens, fubtus pallida, verticis fascia longitudinali lutea utrinque nigro marginata.

MOTACILLA remigibus fecundariis exteriori margine flavis, medio albis, vertice luteo.

Lin. Syst. Nat. p. 338.

REGULUS CRISTATUS.

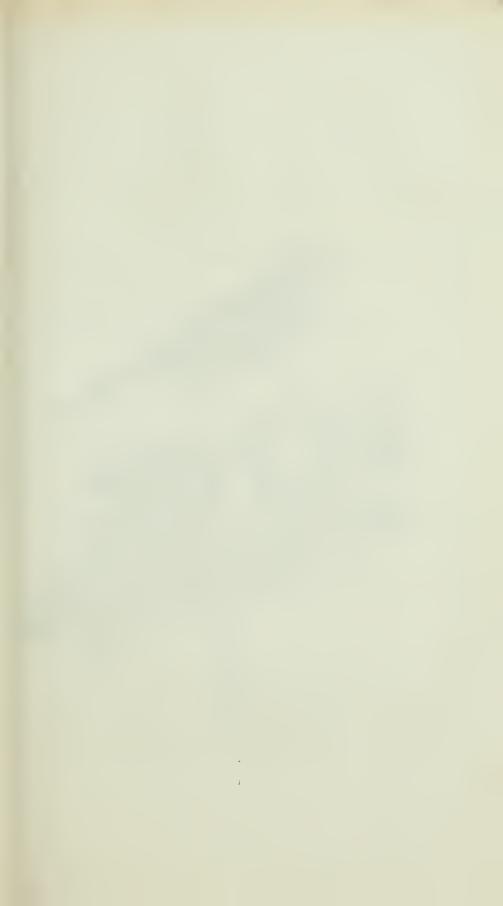
Will. orn. p. 163. t. 42.

SYLVIA REGULUS.

Lath. ind. orn. p. 548.

Antequam detectus effet orbis Americanus, avium omnium minima habebatur Motacilla Regulus: mi-K norem

norem certe non alit Europa. Eximiam eleganti huic aviculæ affert pulchritudinem quæ verticem decorat fascia læte aurantia utrinque etiam nigro terminata. Non mollis et tenella est Motacilla Regulus, sed hiemes nostro sub coelo frigidissimas illæsa perfert. Cernere est cam sæpius in quercubus quas amare videtur ante alias arbores.





### GOLDEN-CROWNED WREN.

**•** 

#### GENERIC CHARACTER.

Bill fubulate (or awl-shaped); strait; the mandibles nearly equal.

Nostrils nearly oval.

Tongue jagged, or lacerated towards the tip.

### SPECIFIC CHARACTER, &c.

GREENISH MOTACILLA, pale beneath, with a longitudinal gold-yellow band edged on each fide with black on the crown of the head.

### THE GOLDEN-CROWNED WREN.

Raii Syn. p. 79. A. 9. Will. orn. p. 227. pl. 42. Br. Zool. 1. No. 153.

The Motaeilla Regulus, or golden-erested Wren, is the smallest of all the European birds, and till the discovery of the American continent, was regarded as the most diminutive of the seathered tribe. The rich orange-coloured stripe on the top

K 2

of the head, foftening into yellow, and bounded on each fide by a line of black, gives a peculiarly beautiful appearance to this elegant fpecies. It is a bird of a hardy conftitution, and bears without feeming inconvenience the feverest winters of our climate. It is more frequently seen on oak trees than on any others.

### CAPUT DIDI.

\(\phi \phi \phi \phi \phi \phi \phi \phi		*****	· <b>•</b>
	-Pes et	Caput	uni
Reddutur formæ.			

Cum ego nuper verum et genuinum Didi pedem in Museo Britannico detectum accurate depingi curaverim, gratulor fane mihi quod jam oblata fit occafio reliquias pretiofiores lectoribus meis apponendi; rostrum nempe, cum fronte seu parte capitis ei adhuc adhærente. In hoc fingularis istius avis vestigium fauste admodum incidi in Museo Ashmoleano apud Oxonienses; in quo satis notum est contineri quicquid rarum collegerat celeberrimus Tradescantius, qui id omne domino Eliæ Ashmole legavit, a quo postea Academiæ donatum est. In descriptione Didi qui in tabula centesima vicesima et tertia hujus operis cernitur, Willoughbeii testimonio usus sum, qui exuvias avis in Museo Tradescantiano se vidisse assirmaverat. Rostrum igitur de quo loquimur est ipsissimum specimen a Willoughbeio Raioque vifum; quod fideliter repræfentavimus, quale hodie conspicitur, id injuriarum paffum quas afferre folet annorum spatium majus quam centum et quinquaginta. Notandum porro est pedem quoque Didi, vetustate exesum et mutilatum, in codem Museo affervari, plene et persecte congruentem cum illo quem fuppeditavit Museum BritanniBritannicum, quemque in hoc Naturæ Vivario non ita pridem descripsimus. Vera igitur istius avis existentia, de qua nonnihil dubitari solitum est, tandem certissime probatur.



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#### THE

### HEAD OF THE DODO.

*<u></u>* 

Having fome months ago afcertained in the British Museum the leg of a Dodo, and given in a preceding number an exact reprefentation of it, I have now the pleasure of prefenting my readers with a still more fatisfactory relique of that fingular bird, viz. the beak, with the fore-part of the head still adhering to it. This I was fo fortunate as to difcover very lately in the Ashmolean Museum at Oxford, in which, as is well known, is contained the collection of the famous John Tradescant, by whom it was bequeathed to Mr. Elias Ashmole, who prefented it to the university. In the description of the Dodo at plate 123 of the prefent work, I have observed that we have the testimony of Willoughby for the existence of the exuviæ of the Dodo in the Tradescantian Museum. The beak therefore here figured is that belonging to the specimen seen by Willoughby and Ray. It is most faithfully reprefented as it now appears, having fuffered fome injuries from the lapfe of more than a century and half. I should not omit to observe that a leg of the Dodo (tho' in an extremely bad state of prefervation), exists in the same collection; in size and every other particular agreeing with that belonging to the British Museum. The existence therefore of the Dodo, which has lately been confidered as fomewhat problematical, is now in the fullest and most satisfactory manner ascertained.



### PAPILIO HECUBA.

\*

#### CHARACTER GENERICUS.

Antennæ apicem versus crassiores, sæpius clavatocapitatæ.

Alæ (sedentis) erectæ sursumque conniventes, (volatu diurno.)

Lin. Syst. Nat. p. 744.

### CHARACTER SPECIFICUS, &c.

PAPILIO alis anterioribus rubris, posterioribus nigris, omnibus subtus ocellatis.

PAPILIO alis anterioribus rubris, posterioribus nigris, subtus utrinque occilatis.

Liv. Syft. N.u. Gmel. p. 2247.

PAPILIO alis dentatis, anticis rubris, posticis nigris, subtus utrinque ocellatis.

Lin. Mant. 1534.

Colorum dispositione insignis Papilio Hecuba inter maximos et lautissimos sui generis locum sibi vindicat. Alæ superiores læte serrugineo-rubræ, oris sufcis; inseriores atræ longe minus nigrant juxta basin seu ad humeros. Alarum tum superiorum

tum inferiorum margines decorat feries macularum leviter flaventium. Corpus grifeum, feu canefcens. Alarum omnium fuperficies inferior variis umbris nigris, fufcis, canis, ferrugineis undulata, maculis quoque quafi ocellatis concoloribus adornatur. Americam Auftralem incolit venustissima hæc species.



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# HECUBA.

**•** 

### GENERIC CHARACTER.

Antennæ or Horns thickening towards the upper part, and generally terminating in a knob, or club-shaped tip.

Wings (when fitting) erect, and meeting upwards. (Flight diurnal.)

# SPECIFIC CHARACTER, &c.

BUTTERFLY with the upper wings red, the lower black; each pair ocellated beneath.

LE GRAND OCULÉ DE CAYENNE.

Pl. enl. 19.

The Papilio Hecuba is one of the largest and most magnificent of its tribe. It is also remarkable for the singularity of its colour; the upper wings being of a very rich ferruginous-red with dusky edges, while the lower ones are black, but considerably paler towards their base than on the broader part. Both the upper and lower wings are edged with a series of palish yellow spots. The body is greyish. The under surface of all the wings is undulated

dulated with various fhades of brown, black, grey, and ferruginous, and marked by feveral eye-like fpots of fimilar colours. This fuperb infect is a native of South America.

# MOTACILLA CALLIOPE.

<del></del>

### CHARACTER GENERICUS.

Rostrum subulatum, rectum: mandibulis subæqua-

Nares ovatæ.

Lingua lacero-emarginata.

Lin. Syst. Nat. p. 328.

# CHARACTER SPECIFICUS, &c.

MOTACILLA fusco-ferruginea, subtus pallidior, gula rubra nigro marginata.

TURDUS CALLIOPE.

Lath. ind. orn. p. 331.

TURDUS KAMTSCHATKENSIS.

Lin. Syft. Nat. Gmel. p. 817.

MOTACILLA CALLIOPE.

Lin. Syst. Nat. Gmel. p. 977.

In frigidis Siberiæ regionibus innata Motacilla Calliope, more lufciniæ Europeæ, noctu præcipue cantare dicitur, aliis omnibus avibus quæ plagam istam immitem incolunt ob vocis suavitatem merito M prælata.

prælata. Carminibus etiam dulcissimis accedit non mediocris colorum elegantia: quorum primarius blande est et molliter ferrugineo-fuscus, gutture ruberrimo margine nigerrima circumdato. Circa ripas sluminis Jenisæ præcipue dicitur abundare Motacilla Calliope.





#### THE

### RUBY-THROATED WARBLER.

**◇**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### GENERIC CHARACTER.

Bill fubulate (or awl-shaped); strait; the mandibles nearly equal.

Nostrils nearly oval.

Tongue jagged, or lacerated towards the tip.

# Specific Character, &c.

FERRUGINOUS-BROWN WARBLER, paler beneath, with red throat bordered by black.

KAMTSCHATKA THRUSH.

Lath. Syn. 2. p. 28.

RUBY-THROAT WARBLER.

Lath. Syn. 2. p. 463.

The Motacilla Calliope or Ruby-throated Warbler is a native of the frozen regions of Siberia, and like the nightingale of Europe, is faid to fing principally during the night. It is confidered as the most musical bird of that inclement country, and to the sweetness of its song is superadded no inconinconfiderable degree of beauty of colour: the prevailing tinge being a very fine foft ferruginous brown, while the vivid red on the throat is bounded by a border of the deepest black. It is said to be particularly plentiful about the banks of the river Jenisei.

# MILLEPORA CELLULOSA.

CHARACTER GENERICUS.

Animal Hydra.

Corallium poris turbinatis teretibus.

Lin. Syst. Nat. p. 1282.

CHARACTER SPECIFICUS, &c.

MILLEPORA membranacea reticulata umbilicata turbinato-undulata, hine porofa pubefcens.

Lin. Syst. Nat. p. 1284.

ESCHARA RETIFORMIS.

Ray. fyn. p. 31. n. 1.

RETICULUM MARINUM.

Rumpf. amb. 6. p. 247. t. 87.

MILLEPORA FORAMINOSA.

Ellis et Soland. 200ph. p. 138.

Hoc lithophyto frustra fortasse quæremus formosius in toto genere. Constat enim e lamina undulata, plana, erecta, quæ interdum calyci non absimilis; alias longo ambitu pulchre et luxurianter
plicata, et sere circulatim simbriata. Essiciunt soramina

ramina ampla, numerofa, æqualia, ut videatur corallium quafi phrygioneum: unde Galli fatis apte vocarunt *Manchette de Neptune*. Tota fuperficies interna, fi ope microfcopii examinetur, foramina habet ovata, quæ incoluisse creduntur animalia polypis similia. Color Milleporæ cellulosæ est interdum lacteus, alias subslavescens.







Rot

# LACE MILLEPORE.

GENERIC CHARACTER.

Animal refembling a Hydra or Polype.

Coral furnished with cylindric turbinated pores.

SPECIFIC CHARACTER, &c.

IRREGULARLY WAVED LAMINAR MIL-LEPORE, with oval perforations: the inner furface marked with pores.

LACE MILLEPORE.

Soland et Ellis 200ph. p. 138.

MANCHETTE DE NEPTUNE.

Pl. enl. 23.

The structure of this Lithophyte is so elegant that it may justly be considered as one of the most beautiful of the whole coral tribe. It consists of an undulating, flat, upright lamina, sometimes so disposed as to form a single cup-like sigure; at other times running into a luxuriant state, and appearing richly solded and turned in a somewhat irregular direction in the manner of a russe. The perforations, which are large, extremely numerous, and

and of a regular form, give the coral the appearance of lace. It is from this fingular afpect that the French have given to this fpecies of Millepore the expressive title of *Manchette de Neptune*, or Neptune's russle. When microscopically examined, it appears pierced all over on the internal or upper surface by oval foramina; the supposed habitations of polype-like animals. The colour of this Millepore is sometimes milk-white; at other times yellowish.

### PENNATULA CYNOMORION.

### CHARACTER GENERICUS.

Corpus in aliis pinnatum, in aliis integrum. Stipes nudus, officulo interno.

# CHARACTER SPECIFICUS, &c.

PENNATULA fimplex, rachi cylindrica craffa granulofa undique polypifera.

Pall. εl. 200ph. p. 373. n. 221. Mifc. 200l. t. 13. f. 1. 4.

### ALCYONIUM EPIPETRUM.

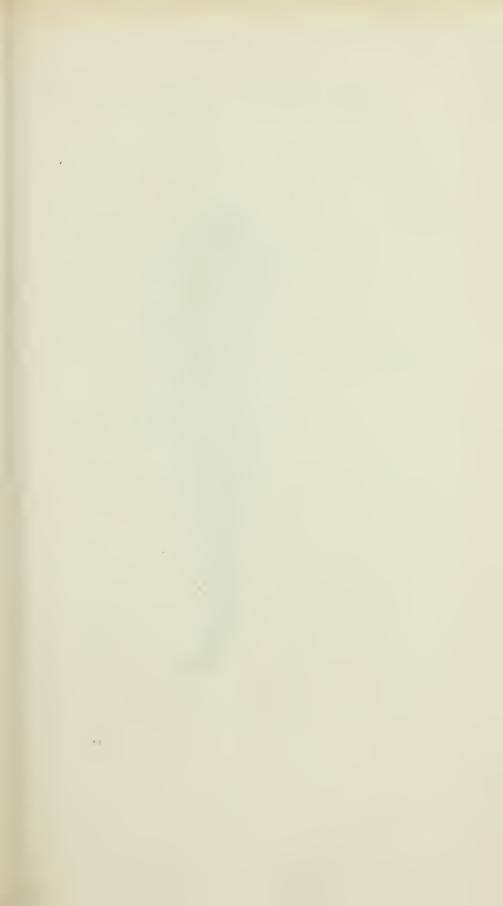
Lin. Syst. Nat. Gmel. p. 3811.

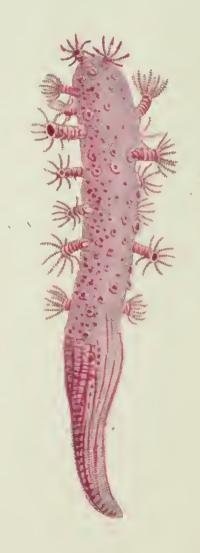
### PENNATULA CYNOMORION.

Sol. et Ellis. 200pb. p. 65. n. 7.

Pennatulas, ut plurimum, distinguit corpus superius pennæ simillimum, e scapo complanato in
ramulos plurimos laterales divisum gradatim longiores usque ad medium, et dein gradatim breviores
donec ad apicem ventum sit. Sunt tamen aliquæ
species quibus aliena est facies a cæteris congeneribus. Harum anomalarum insignior nulla est quam
quæ in tabula depingitur, cui corpus cylindraceum
N elonga-

elongatum, fupra crassius paulo quam infra, granofum, et tuberculis valvatis creberrime obductum, e
quibus tentacula hydras referentia ad arbitrium extruduntur. Color huic est, ut plurimum, carneus,
interdum læte phoeniceus seu coccineus. Mollis
est substantiæ: osse tamen interno instruitur, unumque habet latus leviter canaliculatum seu excavatum.
Generat eam mare Mediterraneum.





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# FINGER-SHAPED PENNATULA.

### GENERIC CHARACTER.

Body in some species pinnated, in some entire; with polypes proceeding from its upper surface, and having a naked stem, surnished with an internal bone.

SPECIFIC CHARACTER, &c.

CYLINDRIC PENNATULA with the whole upper part polypiferous.

FINGER-SHAPED SEA-PEN.

Phil. Tranf. vol. 53.

THE FINGER SEA-PEN.

Soland. and Ellis's Zoophytes. p. 65.

The Pennatulæ in general are distinguished by the peculiar feather-like formation of the upper part of the body, which from a statish midrib fends forth numerous lateral branches gradually lengthening from the part whence they originate, till they arrive at the middle or broadest part, and from thence again shortening towards the tip. There are however a few species which recede in point of habit

bit or general appearance from the rest of their congeners. Of these anomalous Pennatulæ the species here sigured is one of the most remarkable. It consists of a lengthened cylindrical body, somewhat thicker on the upper part than the lower, of a granulated appearance, and thickly covered with valuar tubercles, thro' the orisices of which are protruded at pleasure the polype-like tentacula of the animal. The colour of this curious species is commonly a pale pink, and sometimes a bright purple, or crimson. It is of a soft substance, but is surnished with an internal bone, and is slightly hollowed or channelled on one side. It is found in the Mediterranean sea.

# STRIX ALBIFRONS.

�\*\*\*\*\*\*

### CHARACTER GENERICUS.

Rostrum aduncum (absque cera.)

Nares pennis setaceis recumbentibus obtectæ.

Caput grande: auribus oculisque magnis.

Lingua bisida.

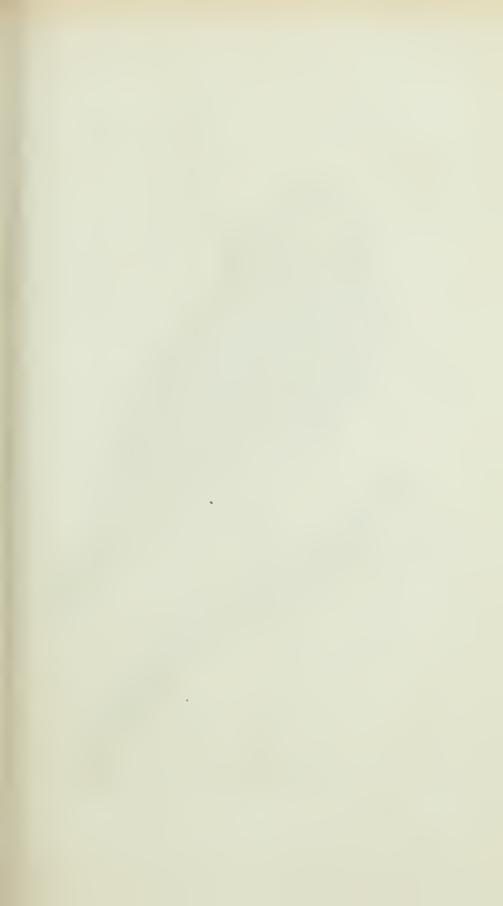
Lin. Syst. Nat. p. 131.

### CHARACTER SPECIFICUS.

STRIX FERRUGINEO-FUSCA, fubtus pallidior, fronte alba, remigibus albo nigroque fafciatis.

Perpufillam hanc strigis speciem suspicor nunquam antea depictam suisse aut descriptam. In America septentrionali, præcipue autem in Canada generatur. Fronte alba, quæ insigniter marem? distinguit, caret quæ putatur esse semina. In generis divisione quæ species læves seu inauritas continet, reponitur strix albisrons.







Landon . Published April 10 1994, by F. F. Nodder & C A 15 Bra

#### THE

### WHITE-FRONTED OWL.

O++++++++++++++++++++++++++++

### GENERIC CHARACTER.

Bill crooked, (not furnished with a cere.)
Nostrils covered with recumbent bristly feathers.
Head large: Ears and Eyes large.
Tongue bisid.

### SPECIFIC CHARACTER.

FERRUGINOUS - BROWN OWL, paler beneath, with the forehead white, and the remiges barred with black and white.

The very curious and diminutive species of owl here represented in its natural size, has perhaps never been either sigured or described. It is a native of North America, and particularly of Canada. The supposed semale is destitute of the white forehead, which forms so conspicuous a character in the male? It belongs to the division of smooth or hornless owls.



# HOLOTHURIA TREMULA.

### CHARACTER GENERICUS.

Corpus liberum, nudum, gibbum, ano terminali. Tentacula plura in altera extremitate.
Os inter tentacula.

Lin. Syst. Nat. p. 1089.

# CHARACTER SPECIFICUS, &c.

HOLOTHURIA tentaculis fasciculatis, corpore papillis hinc subconicis, illine cylindricis.

Lin. Syst. Nat. p. 1090.

FISTULARIA.

Forsk. Fn. aegypt. ar. t. 39. f. A.

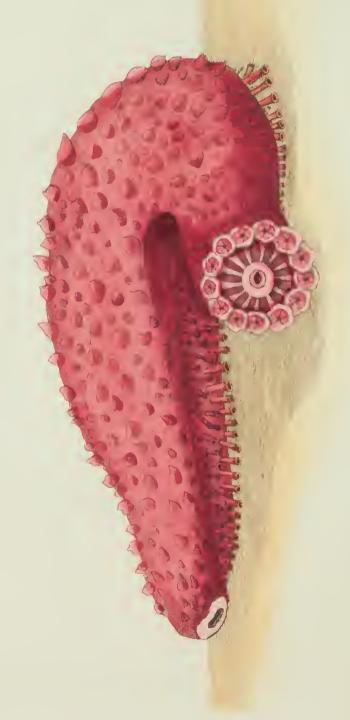
HYDRA.

Bohadsch. anim. mar. p. 75. t. 6.

Facie varia adeo et mutabili funt multa animalia quæ in ordine molluscorum continentur, ut eorum veram figuram dificillimum sit verbis apte describere, cum istius animalculi more quod distinxit Linnæus nomine Chaos Proteus, varias horæ momento formas possint induere, et citissima metamorphosi spectantis oculos decipere. Pollet hac facultate

tate totum genus Holothuria, præcipue autem species de qua jam agitur, quæ quiescens et intacta oblonga est et sere cylindracea; simul atque vero locum mutare inceperit, protruduntur statim e pluribus corporis partibus tentacula sere innumera, adeo ut totum animal quasi spinis mollibus obsitum videatur. Contrahitur quoque ad libitum in sormam globosam seu leviter ovatam. Constat color, ut plurimum, ex albedine et rubore pulchre commissis, variantibus autem pro ætate, anni tempore, aliisque de causis. In litoribus maris septentrionalis non raro reperitur Holothuria tremula. Possunt omnes Holothuriæ, si irritentur, aquam ex ore ejaculari ut solent Ascidiæ, velut e siphone prosilientem.





# TREMULOUS HOLOTHURIA.

<u></u>

### GENERIC CHARACTER.

Body unfixed, naked, gibbous, with an open extremity.

Tentacula numerous, furrounding one extremity. Mouth fituated amidst the tentacula.

### Specific Character.

HOLOTHURIA with numerous conical papillæ on its upper furface, cylindric ones on its lower, and numerous fafcicular tentacula furrounding the mouth.

So strange and variable are the shapes of several marine animals belonging to the tribe Mollusca, that it is dissicult to give a clear idea of their form by any description; since like the animalcule known by the name of Proteus, (Chaos Proteus. Lin.) they are capable of totally altering their appearance, and assuming an aspect widely different from that in which they appeared a few minutes before. This is no where more remarkable than in the genus Holothuria, and the species here sigured may stand as a curious example of this mutable power. When perfectly

perfectly at rest, and undisturbed, it appears of an oblong shape; but when it prepares to alter its situation, it protrudes from most parts of its body an infinite number of tentacula or feelers, in such a manner as to appear beset with soft spines. It also is capable of contracting itself at pleasure into a globular shape, or slightly oval. Its colour is commonly a beautiful mixture of red and white, but in this respect it varies considerably, according to the circumstances of vigor, the season of the year, &c. &c. It is not unfrequently found on the coasts of the northern seas.

# RAJA ROSTRATA.

**•** 

### CHARACTER GENERICUS.

Spiracula quinque fubtus ad collum. Corpus depressum.

Os fub capite.

Lin. Syst. Nat. Gmel. p. 395.

### CHARACTER SPECIFICUS, &c.

RAJA corpore elongato, rostro producto.

SQUATO-RAJA s. RHINOBATOS.

Bell. pifc. 78? Gefn. pifc. 903?

RAJA RHINOBATOS?

Lin. Syft. Nat. p. 397.

Ab aliis Rajæ speciebus differt hæc, forma elongata, non, ut in illis, dilatata. Color ejus in speciminibus quæ musæa suspeditant, est pallide terreo-fuscus, sine aliqua notabili macularum variatione. Cutis vix ulla peculiari scabritie distinguitur. Pinnæ, prope caput sitæ, latæ sunt et tenues. Oculi magni sunt: rostrum valde productum, sed apice obtuso. Hæc species a physicis recentioribus vix

vix distincte memorata, a Johnstono tamen proculdubio, in historia sua animalium sæculo jam elapso publicata, depingitur: (tabulam istius operis duodecimam adeat lector, siguram sextam,) ubi Squatina vocatur, et cum pisce penitus diverso, vera nempe Squatina (quæ Squalus Squatina Linnæi,) quamque repræsentat Johnstoni tabula undecima, confundi videtur.





Tomben Rubbeshood , land correct by A. A. Mobiler of to S. to Browner Street

#### THE

### ROSTRATED RAY.

<del></del>

### GENERIC CHARACTER.

Spiracula five, fituated beneath towards the neck.

Body depressed.

Mouth fituated beneath.

SPECIFIC CHARACTER, &c.

LONG-BODIED RAY with lengthened fnout.

THE RHINOBATOS OR LONG-NOSED RAY.

THE LONG-BODIED RAY.

The species of Ray here represented, differs from the rest of its tribe, in its elongated form; the others being very wide or broad animals. Its colour, so far as can be collected from the specimens feen in museums, is a palish earthy brown, without any remarkable variegation. The skin is not distinguished by any very particular roughness. The extended processes or sins near the head are broad and thin. The eyes are large. The snout much elongated

gated and terminating obtufely. This species seems not very distinctly described by modern authors; but it is certainly the species sigured in Johnston's History of Animals published in the last century, at plate 12 of the sishes, sig. 6; who gives a very brief description of it, and calls it Squatina or Meer-Engel, and seems to consound it with a very different species, viz. the Monk-Fish, which is sigured on plate 11 of the same work.

## PIPRA STRIATA.

**◇**◇◇◇◇◇◇

### CHARACTER GENERICUS.

Rostrum capite brevius, basi subtrigonum, integerrimum, apice incurvum.

Pedes grefforii.

Lin. Syst. Nat. p. 338.

# CHARACTER SPECIFICUS, &c.

PIPRA olivaceo-fusca, subtus flavescens, vertice nigro striis albis, loris luteis.

PIPRA striata.

Lin. Syst. Nat. Gmel. p. 308. Lath. ind. orn. p. 558.

Licet Pipræ punctatæ, quam in hoc opere jam descripsimus, assinis admodum sit hæc avicula, ab illa tamen facillime dignosci possit capite plagis niveis insigniter striato. A fronte utrinque eminet macula aureo-slava perpulchra. Guttur quoque nitide slavum. Pennarum e quibus constat alula, ruberrimi seu phænicei sunt apices. Novam Hollandiam incolit hæc avicula, et eadem est ei magnitudo ac pipræ punctatæ.

Q

# STRIPED-HEADED MANAKIN.

### GENERIC CHARACTER.

Bill shorter than the head, somewhat triangular at the base, bent at the tip.

Feet gressorial.

## Specific Character, &c.

OLIVE-BROWN MANAKIN, yellowish beneath: the top of the head black with white stripes: the lores yellow.

STRIPED-HEADED MANAKIN.

Lath. Syn. 2. p. 526. t. 54.

This bird is very closely allied to the Pipra punctata or speckled Manakin already described in the present work. It is readily distinguished at first sight from that species by the remarkable appearance of the white streaks on the head. On each side the forehead is a beautiful gold-colour'd spot. The throat is also of a bright yellow. The feathers of the alulet or spurious wing are tipped with carmine-colour. Its size is that of the Pipra punctata. It is a native of New Holland.







### LOPHIUS STRIATUS.

**<\*\*** 

### CHARACTER GENERICUS.

Spiracula folitaria, pone brachia.

Dentes plurimi, minuti.

Pinnæ pectorales brachiis infidentes.

Branchiæ tres tantum.

Lin. Syft. Nat. p. 402.

### CHARACTER SPECIFICUS.

LOPHIUS compressus fuscus, striis undique confertissimis nigris.

Tres novas repræfentavimus Lophii species, orbis antarctici incolas, qui uberrima scientiæ zoologicæ incrementa assatim suppeditavit. Cernere eas est in tabulis magnitudine naturali, et a reliquo genere, quod adhuc novimus, longe diversas. Lophium striatum detexit eximius ille naturæ indagator Josephus Banks, cum in mari pacifico primum iter saceret. Circa litora Australasiæ reperitur nec non infularum adjacentium. In iisdem etiam regionibus nascuntur aliæ duæ species quas depingi curavimus; Lophius scilicet pictus, et Lophius marmoratus.

## STRIATED LOPHIUS.

Q4\*\*\*\*\*\*\*\*

GENERIC CHARACTER.

Teeth numerous, minute.

Eyes vertical. Shape uncouth.

Ventral Fins more or lefs refembling feet.

SPECIFIC CHARACTER.

COMPRESSED BROWN LOPHIUS, marked all over with very numerous black streaks.

The three new and curious species of the genus Lophius exhibited in the present number may be considered as convincing proofs of the zoological treasures so richly dispersed in the regions of the Southern Hemisphere. They are each represented of the natural size, and differ widely from the rest of the genus hitherto discovered. The first of these, or L: striatus, is amongst the number of new animals discovered by Sir Joseph Banks during his first voyage to the South Seas. It is found about the coast of New Holland and the neighbouring isses. The two following species are also natives of the same regions.

# LOPHIUS PICTUS.

<del></del>

CHARACTER SPECIFICUS.

LOPHIUS compressus fuscus, lituris subflavis rubro marginatis.

## LOPHIUS MARMORATUS.

CHARACTER SPECIFICUS.

LOPHIUS subcompressus lividus, albido ferrugineoque varius, pinna dorsi unica.

#### THE

# VARIEGATED LOPHIUS.

Q\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SPECIFIC CHARACTER.

COMPRESSED BROWN LOPHIUS, with yellowish blotches margined with red.

#### THE

# MARBLED LOPHIUS.

SPECIFIC CHARACTER.

SUBCOMPRESSED LIVID LOPHIUS, varied with whitifh and ferruginous; with fingle dorfal fin.



and in Published May per - go by it P. Norther 3 f 3. 1. Brown Person ?.





landon Roblished May congress by it R. robler of the Borner Server



## PHAETON PHOENICURUS.

### CHARACTER GENERICUS.

Rostrum cultratum, rectum, acuminatum, Fauce pone rostrum hiante.

Nares oblongæ.

Digitus posticus antrorsum versus.

Lin. Syst. Nat. p. 219.

## CHARACTER SPECIFICUS, &c.

PHAETON SUBROSEUS, rostro rectricibusque duabus intermediis rubris.

PHAETON ROSEO-INCARNATUS, rostro rectricibusque duabus intermediis rubris, tænia superciliari pedibusque nigris.

Lath. ind. orn. p. 894.

PHAETON PALLIDISSIME ROSEUS, rostro rectricibusque duabus intermediis rubris.

Lin. Syst. Nat. Gmel. p. 583.

Quæ in hoc genere continentur aves a natura comparatæ ut vitam in mari degant, communiter tropicæ vocantur, quod scilicet intra tropicos sem-

per repertæ fint; res nauticis observatoribus notisfima, qui inde conjiciunt se iis appropinquasse. Vagantur tamen nonnullæ, licet rarius, extra hos limites. Has merito dicamus, " non ufitata ferri nec tenui penna," rapidissimo enim alarum verbere coelum ipfum petentes e conspectu momento surripiuntur, vel ipsis procellariis altivolantibus et longivagis audentiores. Descendunt tamen e nubibus in æquor prædæ studio, et velocissime irruentes pisciculos corripiunt, quibus præcipue vescuntur. Forma et magnitudine simillimæ sunt inter se variæ Phaetontis species; coloribus præcipue differunt. Quæ communis et notissima est candet argenteum, dorfo alifque lunulis nigris brevibus copiofe variatis. Species vero, de qua jam loquimur, pallet albido-rofea, fine lunularum istarum nigrantium vestigio. Rectrices dua intermedia, cateris multo longiores, læte funt phoeniceæ feu potius coccineæ. Tropicis omnibus avibus adhuc cognitis macula infignis nigra trans oculos ducitur. Rostrum phaetontis phoenicuri miniatum. Crura nigricant. Rectrices, feu caudæ pennæ longiores totius generis in tropicis multis regionibus magni habentur; et illis in vestibus ornandis utuntur infulas maris Auftralis incolentes. At in infula Otabeitee cum justa folvuntur mortuis, sancte et auguste incedunt sacerdotes principesque ploratores, amicu larva infignito e concha margaritifera, cujus margines plumis de cauda excerptis cinguntur, ut folis radios imitentur. Ova deponere folent hæ aves, bina plerumque, in cavis ad radices arborum, nidum fibi rudem et incompositum e frustulis ligni reliquisque ejusmodi comparantes.





## RED-TAILED TROPIC-BIRD.

**+++++++++++++++++++** 

#### GENERIC CHARACTER.

Bill compressed, rather sloping, sharp-pointed. Nostrils pervious.

Toes four, all webbed together.

Tail cuneiform: the two middle feathers extreme: ly long.

## SPECIFIC CHARACTER, &c.

PALE-ROSE-COLOURED PHAETON, with the beak and two middle tail-feathers red.

RED-TAILED TROPIC-BIRD.

Lath. Synopf. 3. p. 619.

LE PAILLE EN QUEUE à brins rouges.

Buff. vif. 8. p. 357.

PAILLE EN QUEUE de l'Isle de France.

Pl. enl. 979.

The birds of this genus, which are by nature calculated for a marine life, have obtained their common title of Tropic-Birds from being constantly R 2 found

found within the tropics; a circumstance so generally remarked that it affords one of the most common nautical observations relative to approaching those regions. They are however occasionally feen, though rarely, at fome confiderable distance beyond the tropics. These birds may well be faid to foar "with no middle wing," fince their afcent is fo uncommonly lofty, and fo powerfully rapid, as quickly to raife them beyond human view. Even the Albatrosses, so remarkable for the heights which they attain in the air, and the vast extent of their excursions, cannot equal the daring and exalted flight of these etherial wanderers. From these elevations they occasionally descend to seek for prey, and darting down with vast velocity, seize on and devour the fmaller fish, which form the principal article of their food. Between the different species of Phaeton, which are but few, there is the greatest degree of general fimilarity of shape and fize; and indeed they differ principally in colour: the common tropic-bird being of a beautiful filvery white, thickly traverfed on the upper part of the body with thort lunulated streaks of black: while the prefent species is of an extremely pale rofe-colour, or rather nearly white with a rofe-coloured tinge, and without any of those black streaks which diftinguish the former kind. The two middle tailfeathers, which greatly exceed the rest in length, are of a deep and beautiful crimson. In all the tropic-birds yet known there is commonly behind and across each eye a remarkable streak of black. beak in this species is of a fine red; the legs black-

The long feathers of the tail in the birds of this genus are highly esteemed by the natives of many of the tropical regions, and are much used in the ornamental dresses of the natives of the Southern islands. They are particularly conspicuous on the awful and elegant ceremonial habits worn by the priests at Otaheitee, as well as on those of the chief mourners at funerals in that island, which are furnished with a mask or vizor of nacre or mother of pearl shell, furrounded by the tail-feathers of these birds, evidently intended to represent the folar beams, and disposed so as to imitate the diverging rays of that luminary. These birds deposit their eggs, which are generally two in number, in hollows near the roots of trees, in which they form a fort of careless nest with fragments of sticks, &c.



### PULEX IRRITANS.

#### CHARACTER GENERICUS.

Pedes fex, faltatorii.

Oculi duo.

Antennæ filiformes (feu potius moniliformes.)
Os rostro inflexo, setaceo, aculeum recondente.
Abdomen compressum.

CHARACTER SPECIFICUS, &c.

PULEX proboscide corpore breviore.

Lin. Syst. Nat. p. 1021.

PULEX rostro corpore breviore.

Lin. Syst. Nat. Gmel. p. 2923.

PULEX COMMUNIS.

Papilionaceis infectis ab ovo exortis fubenndas esse quassam formæ mutationes antequam plene adoleverint, sere onnibus cognitum est: paucis sortasse, similiter voluisse naturam in pulice. Ova pulicis minima et alba, inter pilos quadrupedum, plumas avium, et in variis ejusmodi locis a parente deposita, sinito quasi hebdomade, in larvas excluduntur

duntur parvulas, albidas, seu levissime rubentes, agillimas, et variis modis se contorquentes, simul atque turbantur. Hæ cum ad plenam magnitudinem pervenerint, (circiter quintam scilicet unciæ partem) obvelantes fe operimento laxo, albo, et veluti gossipino expectant donec in chrysalidas mutentur; quod fit diebus circiter duodecim: et e chryfalide erumpit pulex jam perfectus. Quamvis molestissimum sit hoc animalculum, negandum tamen non est inesse illi quandam formæ concinnitatem. Expeditissima est nec inclegans corporis agilitas. Lorica, qua tegitur, nullis unquam fædatur fordibus, sed nitet semper quasi polita. At tantum musculosi roboris spatio adeo exiguo contineri et terminari quis non miretur? cui forfan vix fimile invenitur in aliis omnibus animalibus; ne quidem in ipfis gryllis; posse enim pulicem distantiam sui ipfius corporis ducenties fuperantem uno faltu conficere fatis probavit nec exaggerata computatio, Socratem, quem de hac ipfa re finxit fe calculis torquentem, atro fale perfricuit Aristophanes.

« Αλλ ε θεμις," &c.

Difc. Sed fas non est hac cuiquam dicere nisi discipulis.

Strepf. Mihi dic ergo audacter: ego enim ipfe Venio in fcholam difcipulus.

D. Dicam, fed te oportet habere ista pro mysteriis.

Modo interrogabat Chærephonta Socrates,
Pulex quot pedes suos ipsius faltaret?
Cum enim momordisset Chærephontis supercilium,
In caput Socratis inde saltavit.

S. Quo-

- S. Quomodo ergo istud metiebatur? D. Scite admodum. Cera liquesacta, deinde pulice prehenso, Immersit in ceram pedes ejus: Post, refrigerato adnatæ sunt crepidæ Persicæ. His detractis dimetiebatur locum.
- S. O rex Jupiter, quanta subtilitas mentis!

  AR: Nubes. aEl 1. sc. 2.

Hujus quoque mordaces facetias transtulit in poema fatiricum Butlerus nostras.

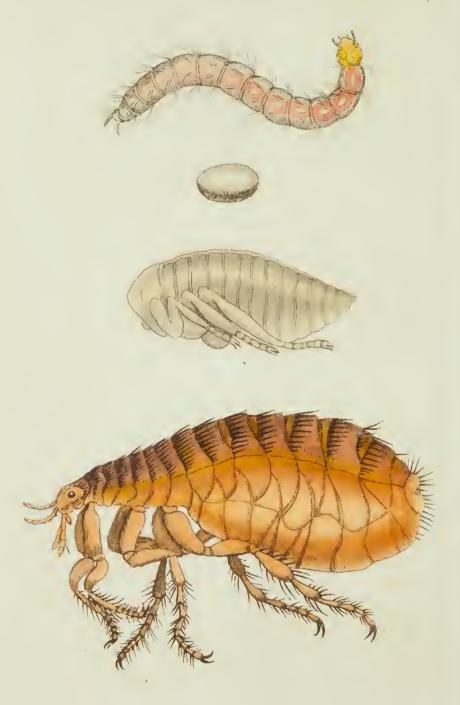
A capite ad caleem si sit mensura, repertum est Saltabit pulex quot spatia ipse sui: Chære-que-phonteo tentamine, Socraticoque, Frustra quæsitum tempore præterito.

Mira inest pulicibus, ut et aliis multis insectis, reviviscendi facultas, vel ea passis quæ vitæ sunt inimicissima. Narravit mihi ingeniosus quidam amicus quod suo experimento confirmavit, revixisse pulicem a calido aere, licet horas viginti et quatuor in aqua fuisset immersus. Insectis tamen nonnullis in classe Coleoptera redintegrari solet vita vel longius suspensa. Descriptionem insecti hujus belli et petulantis claudet epigramma lepidum quod legitur in carminibus quadragesimalibus Oxonii editis anno millesimo septingentesimo vicesimo tertio.

Pulicis exigui tenues per colla catenas
Nexuit artifici pulchra Corinna manu.
Sie, inquit, pavo Junoni chara, palumbes
Sie Veneri; pulex tu milii gratus eris.
Hie nova lafeivo testatur gaudia saltu,
Et cadit in molles parvulus erro sinus:

Mox fuadente fiti, tanta est solertia, sertur Qua sanguis roseo semper in orc sedet. Credideris illic semper voluisse morari, Nec blandas unquam destituisse genas. Jam secura potes nexas laxare catenas, Non opus artissei, pulchra Corinna, jugo. Dum licet hic pasci, licet hac in sede morari, Non tua captivum vincla, sed ipsa tenes.





London, Lablished June 1999 by F. S. Nodder & C. 1.5 Brewer Street .

#### THE

### FLEA.

### GENERIC CHARACTER.

Feet fix, formed for leaping. Eyes two.

Antennæ filiform (or rather moniliform.)

Mouth confisting of an inflected setaceous tube containing a tubular piercer.

Body compressed.

SPECIFIC CHARACTER, &c.

FLEA with probofcis shorter than the body.

THE COMMON FLEA.

The change of form in the papilionaceous infects during their progrefs from the egg to their complete state, is almost univerfally known. But that a similar process takes place in the Flea, is perhaps by no means generally understood.

The eggs of the Flea, which are very fmall, white, and of an oval form, are deposited by the parent insect in various situations savorable to their

their evolution, viz. amongst the hair and on the skins of quadrupeds, the feathers of birds, &c. &c. After the space of about a week they are hatched into small larvæ, which are of a whitish colour, with a flight tinge of reddish, and are extremely locomotive; and on being diffurbed, throw themfelves into various fudden contorfions. When arrived at their full fize, they are about the fifth of an inch in length. At this period they prepare themselves for their pupa or chrysalis state, by enclosing themselves in a loosely spun web or diffused envelopement of a very foft, filky, or rather cottonlike appearance, and of a white colour. In this the larva changes into a chryfalis, out of which, in about the space of twelve days emerges the animal in its complete state.

Notwithstanding the inconveniences attending this little infect, and the general disapprobation which its frequency occasions, there is fomething pleasing in the appearance of the Flea. All its motions are elegant, and all its postures indicate agility. The shelly armour with which it is inveloped, is in a flate of perpetual cleanliness; while the mufcular power which it is capable of exerting is fo extraordinary, as justly to excite our wonder at fo much strength confined, and concentrated, as it were, in fo small a space. Perhaps of all animals the Flea possesses the greatest muscular strength, and far exceeds in point of exertion all the infects of the locust tribe; being able to spring, on the most moderate computation, to the distance of at leaft least two hundred times its own length. It is remarkable that Socrates was ridiculed for his pretended experiments on this very subject, by the licentious pen of Aristophanes.

DISCIPLE.

That were not lawful to reveal to strangers.

STREPSIADES.

Speak boldly then as to a fellow student; For therefore am I come.

Disc.

Then I will fpeak;

But fet it down amongst our mysteries.

It is a question put to Chærephon

By our great master Socrates to answer,

How many of his own lengths at one spring

A slea can hop? for one by chance had skipp'd

Straight from the brow of Chærephon to th' head

Of Socrates.

STR.

And how did then the fage Contrive to measure this?

Disc.

Most dext'rously.

He dipp'd the infect's feet in melted wax, Which hard'ning into flippers as it cool'd, By these computed he the question'd space.

STR.

O Jupiter, what fubtilty of thought!

ARIST: Clouds. Act. 1. Scene 2.

The

The celebrated Butler has also commemorated the same circumstance in his poem of Hudibras, viz.

" How many scores a flea will jump Of his own length, from head to rump; Which Socrates and Chærephon In vain affay'd fo long agon."

The Flea, like many other infects, is eminent for its powers of revivescence, and will frequently recover, after being placed in fituations highly unfavourable to animal life. I might here mention the experiment of an ingenious friend, who assures me that on immerging a flea in a vial of water, after being apparently drowned, and lying upwards of twenty-four hours, it has again revived on exposure to warm air. Some of the coleopterous insects are, however, capable of exhibiting far more striking examples of suspended animation.

I shall conclude the description of this locomotive little insect by the following jeu d'esprit, relative to a slea which a lady is supposed to have kept in a state of captivity. The reader will find the original in that truly classical publication the Carmina Quadragesimalia. Oxon. 1723.

Corinna, in a fportive vein,
A fav'rite Flea approves:
And fasten'd by a golden chain
The little captive moves.

Not Juno view'd with more delight Her peacock's train display'd: Not Venus more her fav'rite dove In changing plumes array'd.

With

With conscious joy the insect springs;
His soft confinement loves:
And sinking on her snowy breast,
In full luxuriance roves.

Then waking light from foft repose,
Attacks her rubied lips;
And where the deepest colour glows,
The living vermil sips.

Loofe, fair Corinna, loofe his chain, Nor fear his flight away: For how, thus tempted to remain, How should he wish to stray?

Permitted on those lips to feed,
And slumber on that breast,
Thy charms, Corinna, not thy chains,
Will fastest bind the guest.



# LACERTA SCINCOIDES.

**\*\*\***\*\*\*\*\*\*\*\*\*\*\*\*

## CHARACTER GENERICUS.

Corpus tetrapodum, caudatum, nudum.

Lin. Syst. Nat. p. 359.

CHARACTER SPECIFICUS, &c.

LACERTA fquamis rotundatis, cauda tereti mediocri, pedibus brevibus, digitis breviflimis.

Longitudo fesquipedalis. Color griseus, lateribus fusco inquinatis. Caput scutis largioribus angulatis tectum. Crura brevia. Pedes brevissimi, unguibus brevibus. Lingua lata, retundata, nec forsicata.

Lacertarum nonnullæ funt species quæ ab aliis sui generis discrepant, eo quod, piscium more, squamis magnis et rotundatis contectæ sint. In harum numero est Lacerta Scincus Linnæi, quæ olim in materia medica usurpari solita est, et communiter nomine Scinci cognoscitur. Alia species est a Linnæo non nominata (nisi sorte Linnæi aurata eadem sit) sed cujus meminerunt Sloane et Browne in historia sua insulæ Jamaicæ, descripseruntque nomine S

Galliwasp. Tertia est lacerta maritima maxima. quam repræfentat figura quarta tabulæ centefimæ quintæ Sebæ thefauri volumine fecundo. Ad hujus lacertæ fimilitudinem tam prope accedit hæc noftra, ut dubitari jure possit an revera sit diversa, an potius pro varietate tantum reputanda. Caudam tamen paulo breviorem habet quam illa de qua jam diximus. Lingua non, ut in plerifque, bifurca, fed rotundata, brevis, et lata. Dentes modici, paululum obtusi brevesque. Color est pallide susco-flavefcens; collo utrinque adjicitur macula longa, fusca seu potius nigricans. Eodem quoque colore tinguntur latera, qui tamen in cauda est saturatior. In specimine multo juniore cauda virgis numerofis fuscis pene nigricantibus transverse fasciata est. In quibufdam quoque speciminibus apici caudæ addita est appendix, caudæ alteri non absimilis, quam arbitrantur nonnulli fexus differentiam indicare, et mari esse peculiarem. Longe tamen verisimilius existimo aliud nihil esse hanc appendicem præter caudæ olim mutilatæ et dein redintegratæ fortuitam et adventitiam divaricationem. Lacertarum enim caudas vi aliqua læsas et abruptas repullulare posse, ab experimentis scriptisque physicorum certissime probatum est. Australasiam incolit lacerta scincoides, et plerumque longitudine est prope sesquipedali.





Tomber Patiented give ity age by F. J. Willer R. C. Brown Sine

# SCINCOID LIZARD.

*<u>Q</u>* 

GENERIC CHARACTER.

Body four-footed, tailed, naked.

SPECIFIC CHARACTER.

LIZARD with rounded fcales, fhort legs and extremely fhort toes.

There are fome species of Lizards which differ from the rest of the tribe in being covered with large rounded feales, refembling those of fishes. One of these is the Lacerta Scincus of Linnæus, or the animal formerly used in the materia medica, and called the Scink. Another is a species not mentioned by Linnæus, but described by Sloane and Browne in their respective histories of Jamaica by the name of Galliwasp. A third is the Lacerta maritima maxima of Seba, which is figured in the fecond volume of his Thefaurus rerum naturalium at plate 105, fig. 4. It is to this last that the species here represented bears the greatest affinity: indeed fo great as fcarcely to justify our regarding it as a distinct species: the tail however is somewhat fhorter than in Seba's animal. The tongue is not forked.

forked, as in the generality of lizards, but is broad. flat, and rounded. The teeth rather fmall thanlarge, fomewhat obtufe, and short. The colour of the animal is a pale yellowish brown, with a long patch or mark of very deep brown or blackish on each fide the neck. The fides are also tinged with the fame colour, and the tail more deeply fo than the fides. In a much fmaller specimen of the same animal the tail had the appearance of being fasciated with a number of transverse bars of deep brown. In fome specimens the tail, towards the end, is furnished with a fort of process or appendage, resembling a fecondary tail, as it were, and it has been imagined that this might be a fexual distinction; and perhaps peculiar to the male: but it feems infinitely more probable that fuch an appearance is owing to mere accident; it being a well-known fact that the tails of lizards, when injured, or mutilated by accidental violence, frequently reproduce in different directions; of which numerous examples may be feen in the works of natural historians. The Scincoid Lizard is a native of New Holland, and is commonly about eighteen inches in length.

# PICUS MAJOR.

## CHARACTER GENERICUS.

Rostrum polyedrum, rectum: apice cuneato.

Nares pennis setaceis recumbentibus obtectæ.

Lingua teres, lumbriciformis, longissima, mucronata, apice retrorsum aculeata setis.

Pedes scansorii.

Lin. Syst. Nat. p. 173.

# CHARACTER SPECIFICUS, &c.

PICUS albo nigroque varius, criffo occipiteque rubro.

Lin. Syst. Nat. p. 176.

PICUS varius major.

Will. orn. 94. t. 21.

PICUS discolor.

Frisch. av. t. 36.

Inter aves Britannicas quæ pulcherrimæ habentur Pico majori conceditur fedes, rariori longe Pico viridi et vulgari, et in Angliæ partibus Septentrionalibus præcipue confpecto. Deest feminæ color vivide vivide coccineus quo occiput maris ornatur: utrifque vero in imo abdomine idem levis est sed pulcherrimus rubor. Depingitur in tabula deminuta avis magnitudo.





RA

#### THE

# GREATER SPOTTED WOODPECKER.

<del></del>

GENERIC CHARACTER.

Bill angular, strait, cuneated at the tip.

Nostrils covered with reflected briftly feathers.

Tongue cylindric, worm-shaped, very long, sharppointed, and (generally) aculeated at the tip with reflex bristles.

Feet formed for climbing, viz. two toes forward and two backward.

SPECIFIC CHARACTER, &c.

BLACK AND WHITE WOODPECKER with the hind-head and lower part of the abdomen crimfon.

THE GREATER SPOTTED WOOD-PECKER.

Will. orn. p. 137. pl. 21.

GREAT SPOTTED WOODPECKER.

Pennant Brit. Zool. No. 85.

L'EPEICHE, ou le Pic varié.

Buf. oif. 7. p. 57. Pl. enl. 196. 595.

The Picus major, or greater fpotted Woodpecker, is one of the most elegant of the British birds. It

is far less common than the Picus viridis or green woodpecker, and is principally seen in the northern counties. The rich red on the back part of the head of the male is wanting in the semale, but both sexes have the same elegant light crimson on the lower part of the abdomen. It is represented on the plate much smaller than the natural size.

# COLUBER NAJA.

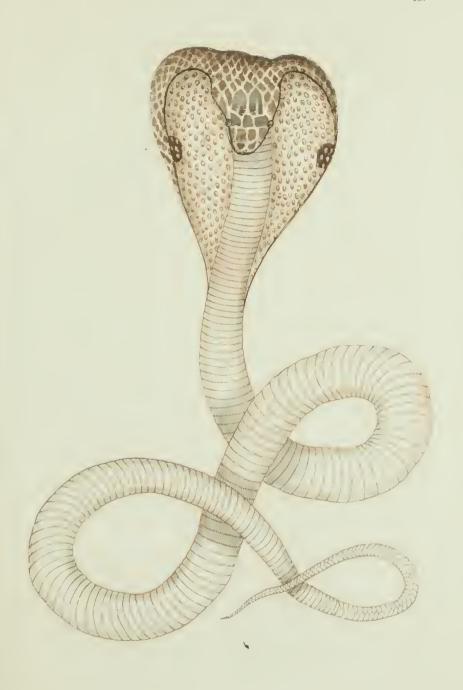
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Colubrum Najam, collo paulatim tumescente et expanso, molliter tantum irascentem in hoc opere antea depinximus. Cum vero veram et archetypam figuram, quam de ipso vivo serpente delineavit in India pictor, quæque illum suribundum et jam jam morsurum ostendit, amicissime communicavit Dominus Russel, eam nunc lubentissime protulimus, ut clarius et melius innotescat quicquid ad sormidandi hujus animalis historiam aliquo modo spectare possit.

#### THE

# SPECTACLE SNAKE.

The figure of Coluber Naja in a preceding number of this work representing the snake merely in an approach towards that expanded state which the neck assumes when the animal is preparing to bite, and having been since favoured by Dr. Russel with an original drawing executed in India and accurately representing the creature in its state of irritation, I therefore embrace so favourable an opportunity of giving an additional sigure, as a farther and clearer elucidation of the history of this dangerous reptile.



In a Clashed July strongs by A " Soulde "



# COCCUS CATAPHRACTUS.

CHARACTER GENERICUS.

Rostrum pectorale.

Abdomen (plerisque) postice setosum.

Alæ duæ crectæ masculis. Feminæ apteræ.

Lin. Syst. Nat. p. 739.

## CHARACTER SPECIFICUS.

COCCUS albus cataphractus, antennis pedibufque ferrugineis.

Assinis videtur Cocco rusci.

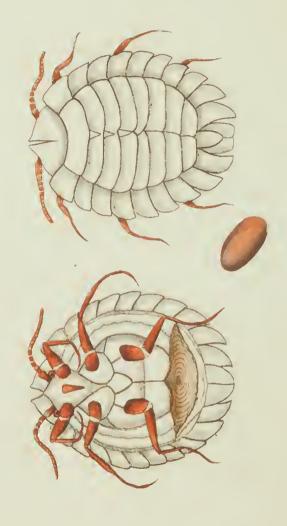
Rarissimum hoc infectum detexit Dominus Dickfon, societatis Linnæanæ socius, Museique Britannici hortulanus primarius; ob acumen et diligentiam in botanicis, in ea præcipue parte quæ eryptogamia dicitur, merito laudatus; qui pulchro me
specimine donavit, rogavitque ut in characteres inquirerem et definirem genus. Cum igitur animalculum ope microscopii penitius examinassem, non
dubitavi pronunciare speciem esse generis Cocci, et
novam fortasse seu non antea descriptam: frustra
enim quæritur in editione systematis Linnæani quam
auctiorem

auctiorem longe publicavit Gmelinius, nec non in Fabricii operibus. Notandum est in genere Cocci marem a femina longe differre: est enim alatus, et in cæteris adeo feminæ absimilis, ut facile putent in insectorum notitia leviter versati eum ad tribum omnino diversam spectare. Cocci, quem ob infigne corporis tegmen cataphrasum nominavi, quæ adhuc detecta funt specimina foeminea funt, mare incognito. Hujus magnitudo eadem fere est ac Coccinellæ tigrine Linnæi: at inter hanc et alios plerosque coccos adeo disconvenit, ut non mirum sit si primo visu ægre tibi persuadeas posse ulla cum iis affinitate conjungi. Totum infectum, exceptis oculis, rostro, pedibus, antennisque, lorica candidissima contegitur, adeo ut ipfo ebore munitum videatur. Annuli seu divisiones dorsi sunt octo; quorum tres fuperiores feutello vel appendicula instruuntur, quo carent cæteri. Latera corporis laminis exflantibus eodem fere modo quo testudinum notantur. Corporis pars inferior fegmentis angulatis et quafi teftudineis operitur. Oculi, proxime ab antennis fiti, nitidi funt, et paululum levati, ut funt aftacorum. Color partium prominentium, oculorum nempe, crurum, rostri, et antennarum, est nitide rubroferrugineus. In figura nostra tegmen abdominis inferioris diffractum depingitur, ut scilicet rugæ cutis ostendantur, contractioque corporis, quæ orta est ab exclufa ovorum copia; quorum multa, postquam loricam perruperam, inveni parva pro corpore, et fusea; ut cernere est in tabula. Inter sphagnum, et alia mufcosi generis in locis paludosis reperitur Coccus cataphractus. Optandum admodum est posse

posse tandem marem laudabili physicorum diligentia inveniri, ut nihil desit completæ historiæ. Repertum adhuc est hoc insectum præcipue in Scotia, et in aliquibus Cumbriæ partibus.







#### THE

# MAILED COCCUS.

○\*

### GENERIC CHARACTER.

Rostrum situated beneath the thorax.

Abdomen (in most species) bristled.

Wings (in the males two, upright.) The semales apterous.

### SPECIFIC CHARACTER.

WHITE MAILED COCCUS, with ferruginous antennæ and legs.

It feems allied to the Coccus rufci.

The very rare and curious infect here represented was discovered by the ingenious Mr. Dickson, Fellow of the Linnæan Society, and Gardener to the British Museum, well known for his attentive researches into that difficult branch of botany the class Cryptogamia. Mr. Dickson soon after its discovery presented me with a specimen of the insect, requesting me to examine its characters, and ascertain, if possible, its genus. I accordingly made a microscopic survey of the animal, and on considering

ing it with much attention, I could not but conclude it to be a species of the genus Coccus, and probably a new or non-defcript one: at least, it does not make its appearance in the greatly enlarged edition of the Systema Naturæ by professor Gmelin, nor is it to be found in the works of Fabricius. I should observe, that in the infects of the genus Coccus the male differs widely in appearance from the female, being furnished with wings, and of a habit fo unlike the female as to be easily regarded by those not conversant in insects as of a totally different tribe. The specimens therefore of this infect hitherto observed are semale ones; the male yet remaining to be discovered. The natural fize of this animal is that of the Coccinella tigrina, or yellow-spotted Coccinella, and at first view it has an appearance so little allied to the generality of Cocci that it is not eafy to conceive that it should belong to that tribe. The whole infect (except the eyes, legs, antennæ, and rostrum,) being coated in the most curious manner in a complete suit of milkwhite armour, as if cased in ivory. The divisions or annuli of the back are eight in number, of which the three fuperior ones are each furnished with a fmall fcutellum or appendicular piece, which is wanting in the others. The fides are furrounded by projecting laminæ fomewhat in the manner of tortoifes. The lower furface is composed of angular pieces nearly disposed as in the above-mentioned animals. The eyes, which are fituated just below or on the under fide of the antennæ, are bright, and fomewhat elevated, not unlike those of a lobster. The

The colour of the projecting parts, viz. the legs, eyes, antennæ, and rostrum, is a fine ferruginous, or reddish-brown. On the lower part of the abdomen the armour is reprefented broken off; displaying the rugæ, &c. of the skin-on that part, and fhewing the remarkable contraction which has taken place in confequence of the infects having deposited its ova, many of which I perceived on breaking off this part of the shield. These eggs were small in proportion to the animal, and of a brown colour, as represented in the figure. It is from the fingular manner in which this creature is coated that I have given it the name of Coccus cataphractus. It is found amongst sphagnum and other mosses in bogs. It is much to be wished that by a diligent research the male may at length be difcovered, in order that the history of fo curious an infect may be rendered complete. It has been hitherto found chiefly in Scotland and in some parts of Cumberland.



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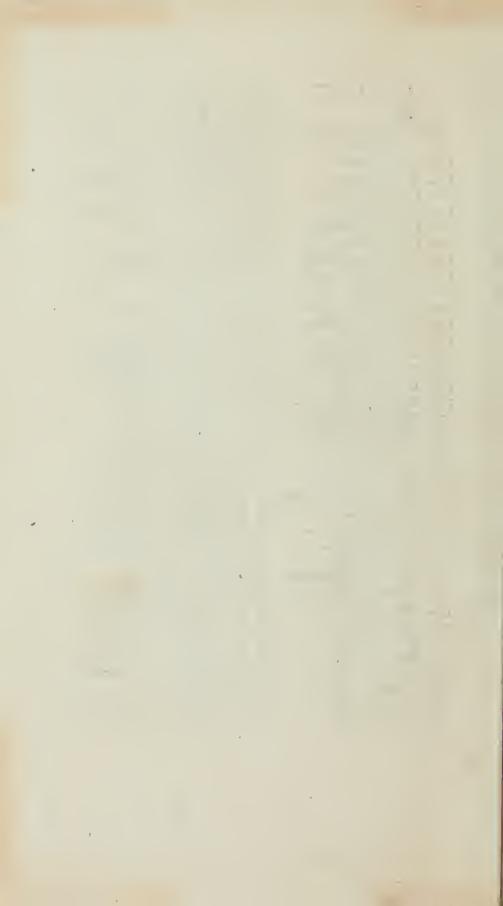
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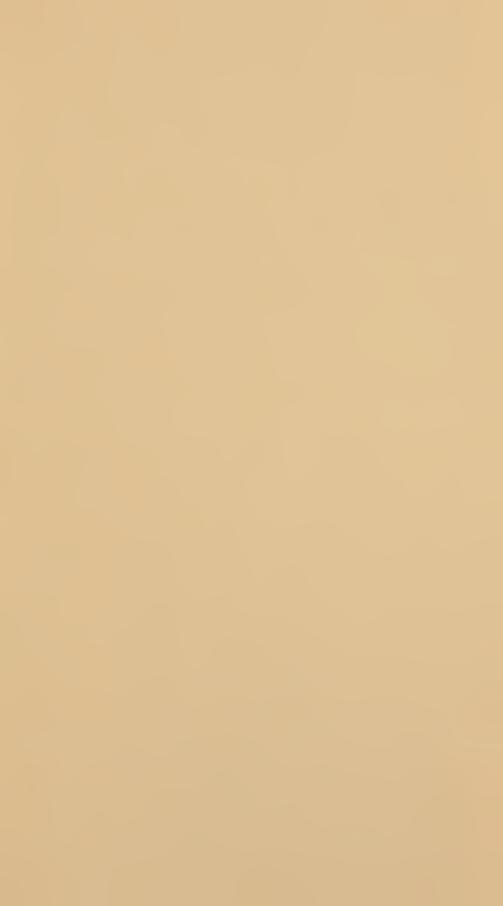
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